



December 17, 2015

Jim Orr, R.G.
NWR Cleanup Program
Remedial Action Project Manager
Oregon Department of Environmental Quality
2020 SW 4th Avenue, Suite 400
Portland, Oregon 97201-4987

**Re: Sampling Results from the Source Control Evaluation Report Program
Lampros Properties, 9040 N Burgard Way, Portland, Oregon**

Dear Mr. Orr,

This letter provides you with the results from the November 2015 stormwater sampling completed at Lampros Properties located at 9040 North Burgard Way in Portland, Oregon (Site). These results are being provided to you in accordance with the September 8, 2015 Draft Stormwater Source Control Evaluation Report. This letter also documents the observed flow of surface water onto the Site from properties to the south and west of the Site. This surface water flowing onto the Site was observed to drain into two of the catch basins sampled as part of the Performance Monitoring Work Plan (Appendix A to the Draft Stormwater Source Control Evaluation Report). Site stormwater sampling was completed on November 16, 2015 per the Performance Monitoring Work Plan; however, based on the surface drainage observations, Lampros Properties will be taking additional steps. Those steps are presented in this letter.

The November stormwater sampling results show that the Site stormwater improvements and implemented BMPs are effective at reducing total suspended solids (TSS) in Site stormwater. Muddy surface water drainage from off-site is impacting several Site catch basins and needs to be addressed. Based on the observed surface drainage onto the Site Lampros Properties is undertaking the following steps:

1. Contacting properties to the south, southwest, and west of the Site to have them eliminate surface water drainage onto the Site at the property boundaries.
2. Reviewing options for curbing or berms along the property boundary to reduce surface water drainage onto the Site.
3. Revise the Performance Monitoring Work Plan to exclude sampling from catch basins observed receiving surface water from off-site. Specifically, catch basin CB-33 (formerly CB-South2) along the southern property boundary and CB-6 near the railroad tracks will no longer be sampled. CB-23 and CB-31 will be sampled as replacements. CB-23 will replace sampling location CB-6 because of its location in an area of medium traffic (mostly forklift traffic). CB-31 will replace sampling location CB-33 because it is in an

December 17, 2015

Jim Orr, R.G.

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area of low traffic. CB-31 is away from the southern property boundary avoiding the potential for surface water run-on entering this catch basin.

4. The results from the November 16, 2015 stormwater sampling event from only CB-3 and CB-11 are considered representative of stormwater from the Site and only these two sampling locations will be used when evaluating the November sampling results in accordance with the Draft Source Control Evaluation Report. Sampling results from all four, on-site only locations (CB-3, CB-11, CB-23, and CB-31) will be evaluated as part of future sampling events.
5. Once steps have been taken to mitigate stormwater surface run-on from neighboring properties, Lampros will document those mitigation measures for submittal to the DEQ and will engage DEQ in a discussion about continuing to sample CB-23 and CB-31 or reverting back to CB-6 and CB-33.

Please let us know if you have any questions.

Sincerely,
SLR International Corporation



R. Scott Miller, P.E.
Managing Principal



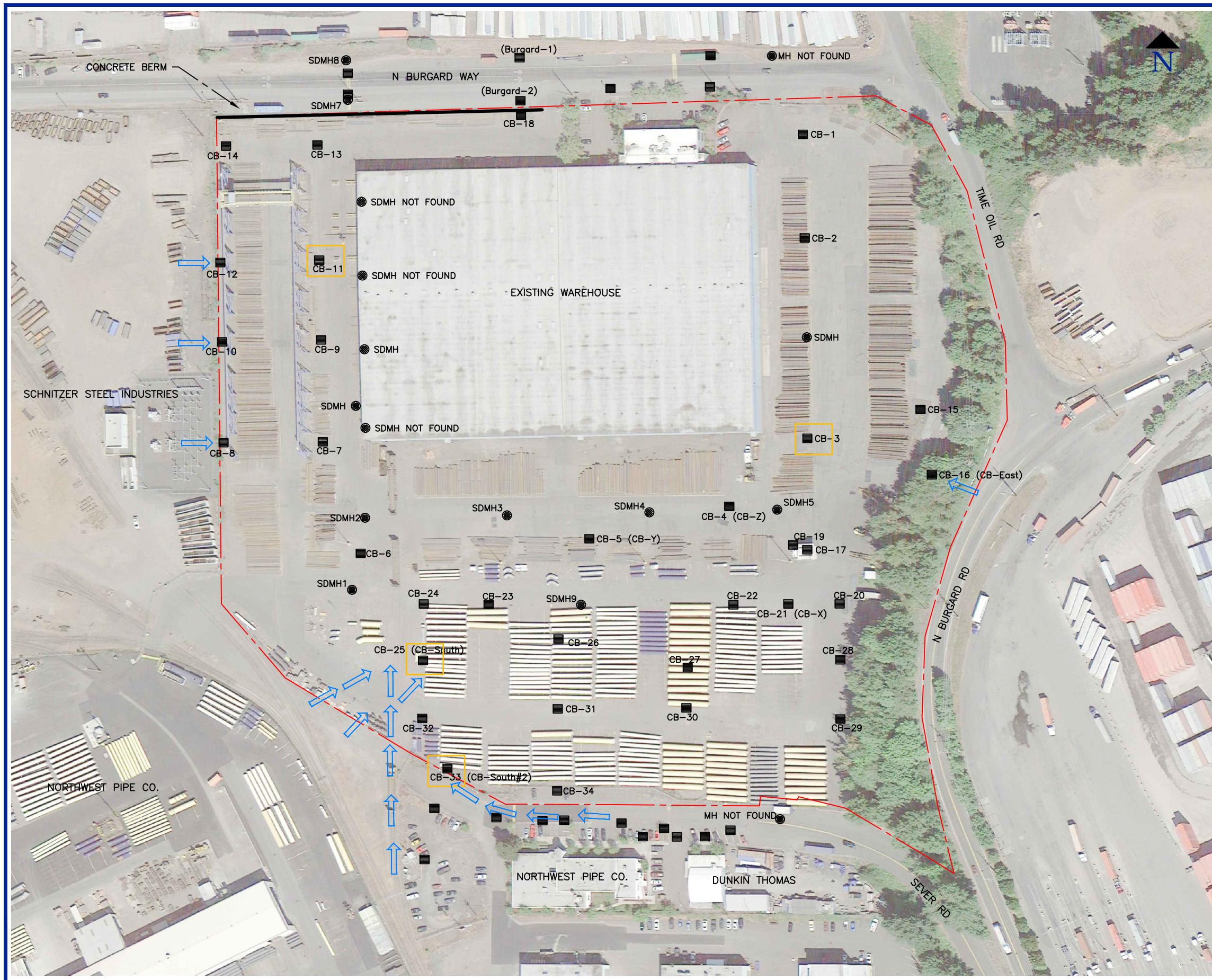
Chris Kramer
Project Scientist

cc Marcus Lampros
 Drew Gilpin

Enc Site Figure illustrating observed surface drainage flow paths
 Site Photographs showing surface drainage
 November 2015 Stormwater Sampling Summary Report

FIGURE

Site Figure illustrating observed surface drainage flow paths



NOTES

AERIAL IMAGE PROVIDED BY GOOGLE EARTH, 2012

CATCH BASIN AND MANHOLE LOCATIONS FROM NOVEMBER 2010 SITE MAP FOR STORM SYSTEM PREPARED BY TERRA HYDR FOR EVRAZ OREGON STEEL AND AUGUST 25, 2015 SITE VISIT

PHOTO DOCUMENTATION OF OBSERVED FLOW INCLUDED ON PHOTO SHEETS 1 AND 2

LEGEND

- The site map includes the following features:

 - Approximate Property Boundary (dashed red line)
 - Catch Basin (represented by a square icon)
 - Manhole (represented by a circle icon)
 - Stormwater Sampling Location (Nov 16, 2015) (represented by a yellow rectangle icon)
 - Observed Surface Flow During Rain Event (Dec 8, 2015) (represented by a blue arrow icon pointing right)

LAMPROS PROPERTIES
9040 NORTH BURGARD WAY
PORTLAND, OREGON

Reno

Report SAMPLING RESULTS FROM THE SOURCE CONTROL EVALUATION REPORT PROGRAM

Drawing OBSERVED SURFACE DRAINAGE FLOW PATHS

Date AUGUST 2015

scale [+5](#) [-5](#)

N₂

SLR

PHOTO SHEETS

Site photographs showing surface drainage



Off-site flow discharging from east property boundary (CB-16)



Off-site surface flow from west property boundary (CB-10)

Site Photographs
December 8, 2015

Photo Sheet 1
Lampros Properties

SLR



Off-site surface flow from south/southwest property boundary (CB-25)



Off-site surface flow from south property boundary (CB-33)

Site Photographs
December 8, 2015

Photo Sheet 2
Lampros Properties

SLR

ATTACHMENT A

November 2015 Stormwater Sampling Summary Report



December 14, 2015

Jim Orr, R.G.
NWR Cleanup Program
Remedial Action Project Manager
Oregon Department of Environmental Quality
2020 SW 4th Avenue, Suite 400
Portland, Oregon 97201-4987

**Re: November 2015 Stormwater Sampling Summary Report
Lampros Properties, 9040 North Burgard Way, Portland, Oregon**

Dear Mr. Orr,

This summary report has been prepared regarding recently completed stormwater sampling activities at the Lampros Properties site located at 9040 North Burgard Way in Portland, Oregon (Site). Stormwater sampling activities were completed per the *Performance Monitoring Work Plan* (Work Plan), included as Appendix A to the *Draft Source Control Evaluation (SCE) Report* submitted to DEQ.

Stormwater Sampling Activities

SLR completed stormwater sampling activities at the Site on November 16, 2015. As stated in the Work Plan, there are no point discharges that are exclusively from the Site; therefore, representative samples of stormwater were collected at on-site select discrete catch basins. Pre filter and post filter stormwater samples were collected per the Work Plan as permitted.

Deviations from the Work Plan include the following:

- Sample names for CB-South2 (CB-S2) referenced in the Work Plan and CB-South were designated using the catch basin numbering system presented in the Draft SCE Report. CB-South2/CB-S2 is now designated CB-33 and CB-South is now designated CB-25. This numbering system is shown on the attached **Figure 1**.
- Proposed sample location CB-6 was not sampled due to material damage of the catch basin grate and frame that prohibited the installation of a Cleanway catch basin insert. The adjacent catch basin CB-25 was sampled.
- The definition of a qualifying storm event in the Work Plan was based on DEQ guidance from 2010 and has been modified based on the 1200-Z general permit (Schedule B, Section 2(d)). A hydrograph of the November 2015 stormwater event is included as **Appendix A**.

Stormwater sample locations for this stormwater sampling event included catch basins CB-3, CB-11, CB-25, and CB-33 and are presented on **Figure 1**.

Laboratory Analytical Results

Laboratory analyses was performed by Specialty Analytical of Clackamas, Oregon. A copy of the laboratory analytical report is included as **Appendix B**. Summary tables comparing laboratory analytical results to selected screening level values (SLVs) are included as **Table 1**. As stated in the accompanying cover letter, off-site surface flow was observed entering the Site and likely contributes to the stormwater samples collected from CB-25 and CB-33; therefore, the following analysis of laboratory analytical results from the November 2015 sampling event have been limited to post-filter stormwater samples from CB-3 and CB-11.

Comparison to Portland Harbor SLVs

Post-filter stormwater samples from CB-3 and CB-11 measured concentrations of polynuclear aromatic hydrocarbons (PAHs), metals, and bis(2-ethylhexyl)phthalate (CB-3 only) above Portland Harbor SLVs.

TSS Evaluation

TSS concentrations were 94 milligrams per liter (mg/L) at CB-3 and 31 mg/L at CB-11. TSS measurements at CB-3 and CB-11 have continued to show improvement when compared to historical sample values. It appears the BMPs (new asphalt patch, surface sweeping, no material storage in area) have contributed to reduced values of TSS at these catch basins.

Comparison to Rank Order Curves

Revised Rank Order Curves from the Draft SCE Report are included as **Appendix C** and include the averaged results of the post-filter sample results at CB-3 and CB-11 from the November 2015 stormwater sampling event. In general, averaged concentrations of metals, bis(2-ethylhexyl)phthalate, PAHs, and TSS were comparable or lower than historical stormwater sampling events at the Site.

Conclusion

Another stormwater sampling event is planned for first quarter 2015. BMPs outlined in the Draft SCE will continue including sweeping of paved areas and inspection and repairs to existing catch basin inserts.

Please let us know if you have any questions.

December 17, 2015

Jim Orr, R.G.

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Sincerely,
SLR International Corporation



R. Scott Miller, P.E.
Managing Principal

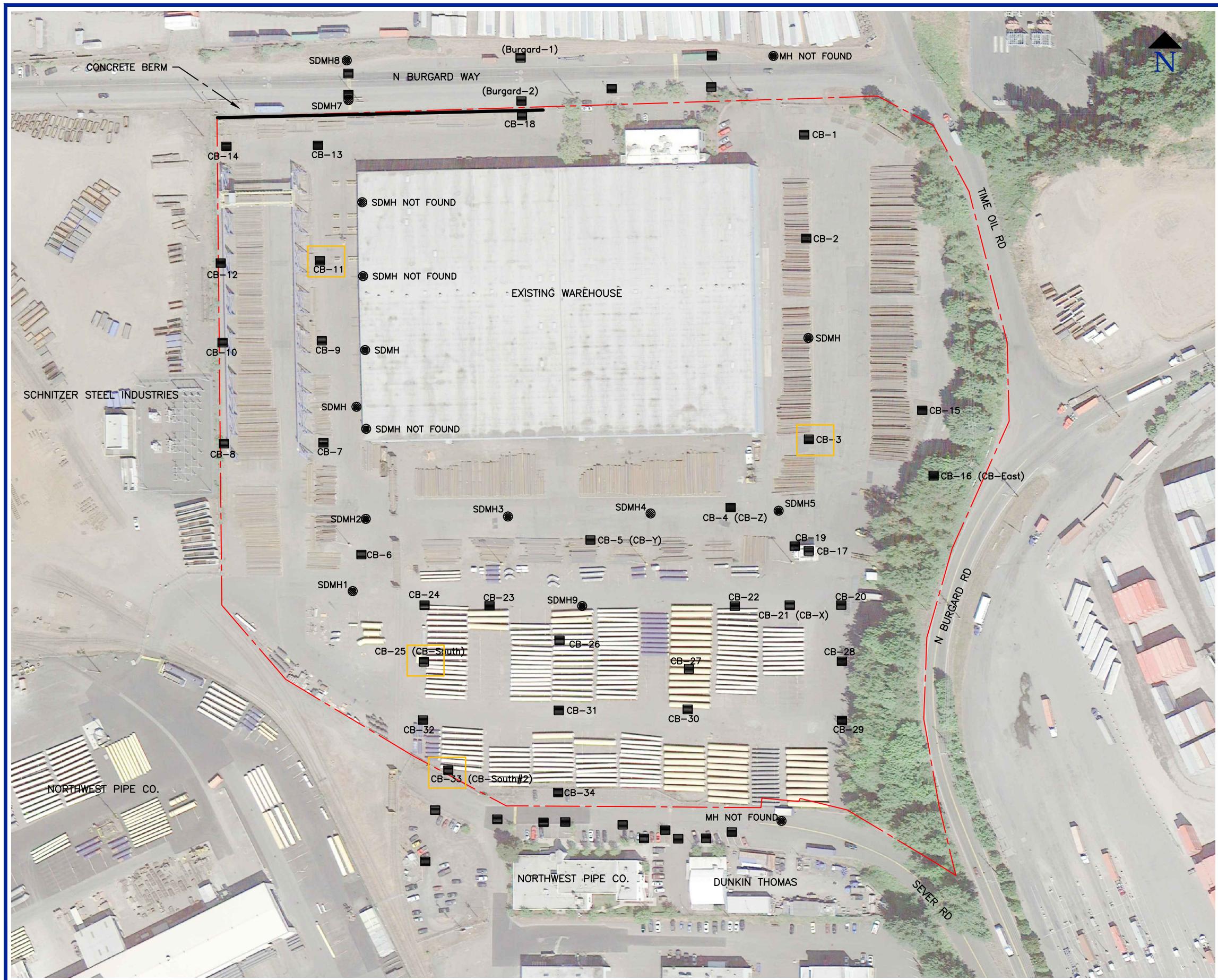


Chris Kramer
Project Scientist

cc Marcus Lampros
 Drew Gilpin

Enc Figure 1
 Table 1
 Appendix A – Hydrograph
 Appendix B – Laboratory Analytical Report
 Appendix C – Revised Rank Order Curves

FIGURES



Last Saved: December 11, 2015 9:57:17 AM by ckramer Drawing path: N:\Portland\Projects\LaMprrops Properties\FIGURES\INOV SUMMARY.dwg

NOTE

AERIAL IMAGE PROVIDED BY GOOGLE EARTH, 2012

CATCH BASIN AND MANHOLE LOCATIONS FROM NOVEMBER 2010 SITE MAP FOR STORM SYSTEM PREPARED BY TERRA HYDR FOR EVRAZ OREGON STEEL AND AUGUST 25, 2015 SITE VISIT

CATCH BASIN NUMBERS DESIGNATED FOR THIS REPORT AND NAMES IN PARENTHESES ARE FORMER SAMPLE NAMES FROM PREVIOUS SAMPLING EVENTS

LEGEND

- The legend includes:
 - A red dashed line representing the Approximate Property Boundary.
 - A square icon with a vertical line inside representing a Catch Basin.
 - A circle icon with a dot inside representing a Manhole.The title at the bottom right reads: STORMWATER SAMPLE LOCATIONS FOR NOVEMBER 16, 2015.

LAMPROS PROPERTIES
9040 NORTH BURGARD WAY
PORTLAND, OREGON

Report NOVEMBER 2015 STORMWATER SAMPLING SUMMARY REPORT

Drawing SITE PLAN

Date AUGUST 2015	Scale AS SHOWN	Fig. No.
File Name NOV SUMMARY	Project No. 108.00895.00002	2

TABLES

Table 1. Stormwater Analytical Results

November 2016 Sampling Event

Lampros Properties

9040 N. Burgard Way

Portland, Oregon

Sample Location	SLV for Portland Harbor ¹	Portland Harbor PRG - Protected Water Uses ²	Portland Harbor PRG - Direct Contact/Ingestion ²	November 16, 2015 Stormwater Sampling Event				
				On-site Stormwater			Observed drainage from off-site	
				CB-3-Post	CB-11-Post	On-site Average ³	CB-25	CB-33-Post
TSS (mg/L)	--	--	--	94	31	63	234	191
Total Petroleum Hydrocarbons								
GRO	--	--	--	<100	<100	ND	<100	<100
DRO	--	--	--	584	K	537 K	865 K	549 K
RRO	--	--	--	2,460	1,560	2,010	2,970	1,980
TOC	--	--	--	4,440	9,510	6,975	4,450	5,850
PCBs Aroclors								
Aroclor 1016	0.96	--	--	<0.0320	<0.0217	ND	<0.0216	<0.0196
Aroclor 1221	0.034	--	--	<0.0320	<0.0217	ND	<0.0216	<0.0196
Aroclor 1232	0.034	--	--	<0.0320	<0.0217	ND	<0.0216	<0.0196
Aroclor 1242	0.034	--	--	<0.0320	<0.0217	ND	<0.0216	<0.0196
Aroclor 1248	0.034	--	--	<0.0320	<0.0217	ND	<0.0216	<0.0196
Aroclor 1254	0.033	--	--	<0.0320	<0.0217	ND	<0.0216	<0.0196
Aroclor 1260	0.034	--	--	<0.0320	<0.0217	ND	<0.0216	<0.0196
Aroclor 1262	--	--	--	<0.0320	<0.0217	ND	<0.0216	<0.0196
Aroclor 1268	--	--	--	<0.0320	<0.0217	ND	<0.0216	<0.0196
Total PCBs	0.000064	0.000006	0.2	ND	ND	ND	ND	ND
PAHs								
Anthracene	0.2	--	--	<0.0572	<0.0548	ND	0.0971	0.0664
Acenaphthene	0.2	--	--	<0.0572	<0.0548	ND	<0.0485	<0.0474
Acenaphthylene	0.2	--	--	<0.0572	<0.0548	ND	0.0874	<0.0474
Benz(a)anthracene	0.018	0.0012	0.027	0.103	<0.0548	0.103	0.194	0.284
Benz(a)pyrene	0.018	0.00012	0.014	0.172	<0.0548	0.172	0.427	0.341
Benz(b)fluoranthene	0.018	0.0012	--	0.206	0.131	0.169	0.515	0.550
Benz(g,h,i)perylene	0.2	--	--	0.366	0.120	0.243	0.777	0.445
Benz(k)fluoranthene	0.018	0.0013	--	<0.0572	<0.0548	ND	0.194	0.152
Chrysene	0.018	0.0013	--	0.172	0.099	0.135	0.417	0.483
Dibenz(a,h)anthracene	0.018	0.00012	--	<0.0572	<0.0548	ND	0.117	<0.0474
Fluoranthene	0.2	--	--	0.263	0.088	0.175	0.408	0.768
Fluorene	0.2	--	--	<0.0572	<0.0548	ND	<0.0485	<0.0474
Indeno(1,2,3-cd)pyrene	0.018	0.0012	--	0.183	<0.0548	0.183	0.466	0.332
Naphthalene	0.2	--	12	<0.0572	<0.0548	ND	<0.0485	<0.0474
Phenanthrene	0.2	--	--	0.149	0.120	0.135	0.243	0.569
Pyrene	0.2	--	--	0.458	0.175	0.317	0.660	0.796
Total PAHs	--	--	--	2.07	0.732	1.40	4.60	4.79
Metals								
Aluminum (pH 6.5 - 9.0)	50	--	--	7,550	727	4,139	8,340	2,600
Antimony	6	--	--	<0.500	<0.500	ND	0.834	0.507
Arsenic	0.045	0.02	--	0.976	0.477	0.727	2.18	0.818
Cadmium	0.094	--	--	0.220	<0.100	0.220	0.875	0.308
Chromium, total	100	--	--	13.4	2.25	7.83	36.4	14.4
Copper	2.7	--	3	32.2	8.76	20.5	64.1	23.5
Lead	0.54	--	--	15.5	3.65	9.58	50.8	27.4
Magnesium	--	--	--	--	--	--	--	--
Manganese	50	--	--	306	53.3	180	770	319
Mercury	0.77	--	--	<0.100	<0.100	ND	<0.100	<0.100
Nickel	16	--	--	12.4	3.08	7.74	21.9	6.76
Silver	0.12	--	--	<0.100	<0.100	ND	<0.100	<0.100
Zinc	36	--	36.5	375	66.3	221	1,990	321
Phthalate Esters								
Bis (2-ethylhexyl) phthalate	2.2	--	--	4.48	1.21	2.85	2.75	3.08
Benzylbutyl phthalate	3	--	--	<1.26	<0.997	ND	<0.969	<0.949
Diethyl phthalate	3	--	--	<1.26	<0.997	ND	<0.969	<0.949
Dimethyl phthalate	3	--	--	<1.26	<0.997	ND	<0.969	<0.949
Di-n-butyl phthalate	3	--	--	<1.26	<0.997	ND	<0.969	<0.949
Di-n-octyl phthalate	3	--	--	<1.26	<0.997	ND	<0.969	<0.949

Notes:All results are in micrograms per liter ($\mu\text{g/L}$) unless noted

1 - Screening Level Value per Portland Harbor Joint Source Control Strategy Table 3.1 (July 16, 2007).

2 - Draft EPA Preliminary Remediation Goals as provided by DEQ in August 6, 2015 by email, Table 2.2-1

3 - On-site Average includes post-filter sample results from CB-3 and CB-11

K - Diesel result is biased high due to amount of Oil contained in the sample.

bold - indicates a value detected above the reporting limit

indicates value greater than SLV

indicates value greater than Protected Water Uses PRG

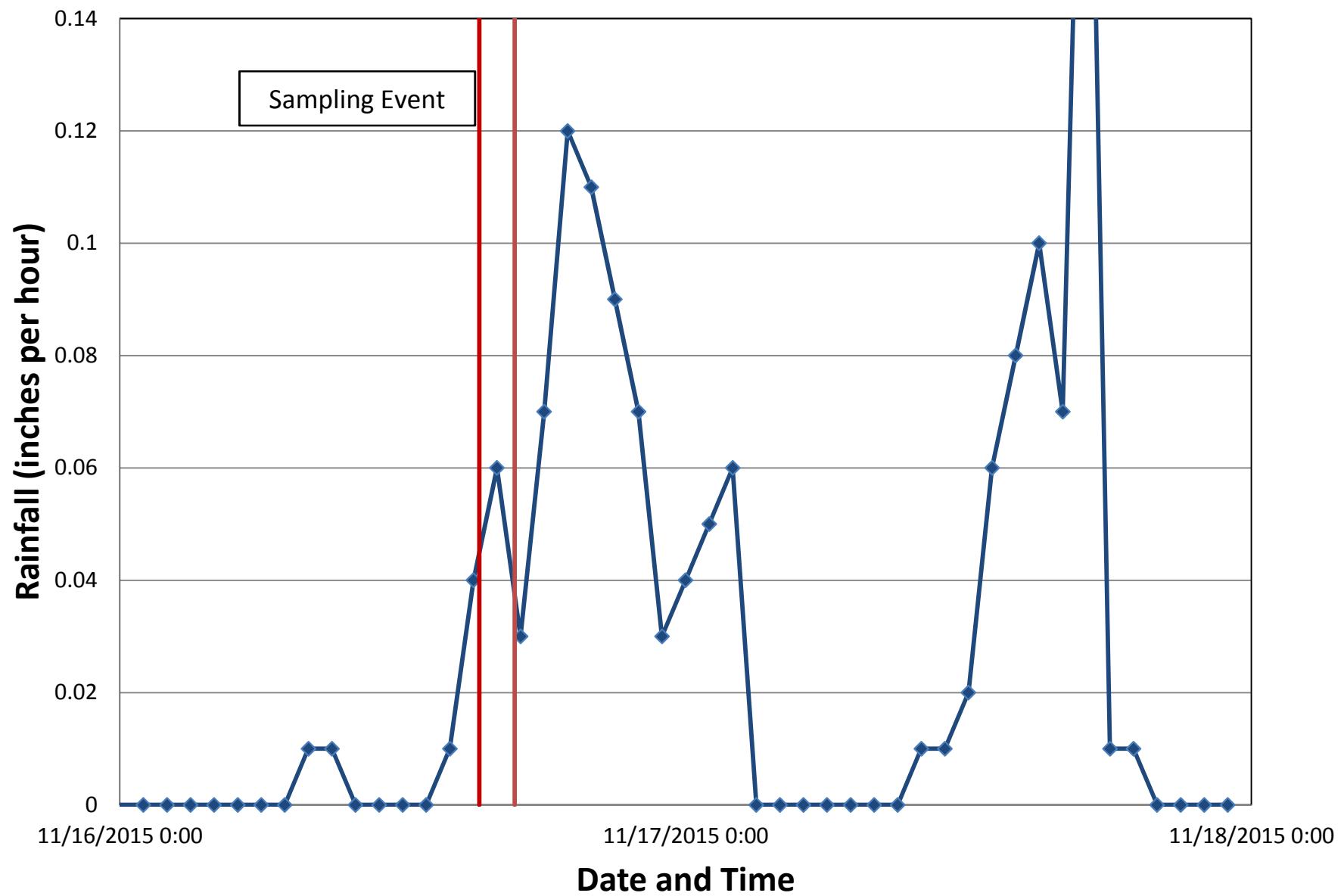
indicates value greater than Direct Contact/Ingestion PRG

-- indicates parameter was not analyzed or data not available

APPENDIX A

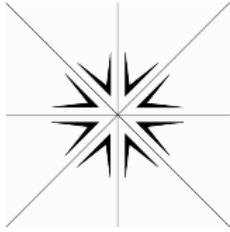
Hydrograph

Hydrograph for November 16, 2015 Sampling Event



APPENDIX B

Laboratory Analytical Report



Specialty Analytical

11711 SE Capps Road, Ste B
Clackamas, Oregon 97015
TEL: 503-607-1331 FAX: 503-607-1336
Website: www.specialtyanalytical.com

November 24, 2015

Chris Kramer
SLR International Corp.
1800 Blankenship Rd.
Ste 440
West Linn, OR 97068

TEL: (503) 723-4423
FAX:
RE: Lampros / 108.00895.00003

Dear Chris Kramer:

Order No.: 1511144

Specialty Analytical received 7 sample(s) on 11/17/2015 for the analyses presented in the following report.

There were no problems with the analysis and all data for associated QC met EPA or laboratory specifications, except where noted in the Case Narrative, or as qualified with flags. Results apply only to the samples analyzed. Without approval of the laboratory, the reproduction of this report is only permitted in its entirety.

If you have any questions regarding these tests, please feel free to call.

Sincerely,

Marty French
Lab Director

Specialty Analytical

Date Reported: 24-Nov-15

CLIENT: SLR International Corp. **Collection Date:** 11/16/2015 3:15:00 PM

Project: Lampros / 108.00895.00003

Lab ID: 1511144-001

Client Sample ID: CB-33-Pre

Matrix: STORM WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ICP/MS METALS- TOTAL RECOVERABLE	E200.8					Analyst: KP
Aluminum	1820	100		µg/L	10	11/18/2015 6:35:02 PM
Antimony	ND	0.500		µg/L	1	11/18/2015 2:25:02 PM
Arsenic	0.587	0.100		µg/L	1	11/18/2015 2:25:02 PM
Cadmium	0.312	0.100		µg/L	1	11/18/2015 2:25:02 PM
Chromium	10.4	0.100		µg/L	1	11/18/2015 2:25:02 PM
Copper	19.3	0.500		µg/L	1	11/18/2015 2:25:02 PM
Lead	18.9	0.100		µg/L	1	11/18/2015 2:25:02 PM
Manganese	243	5.00		µg/L	10	11/18/2015 6:35:02 PM
Nickel	4.96	0.500		µg/L	1	11/18/2015 2:25:02 PM
Silver	ND	0.100		µg/L	1	11/18/2015 2:25:02 PM
Zinc	279	20.0		µg/L	10	11/18/2015 6:35:02 PM
TOTAL MERCURY-AQUEOUS	E245.2					Analyst: KP
Mercury	ND	0.000100		mg/L	1	11/18/2015 11:29:12 AM
TOTAL SUSPENDED SOLIDS	M2540 D					Analyst: BW
Total Suspended Solids	251	5.00		mg/L	1	11/17/2015 9:43:00 AM

Specialty Analytical

Date Reported: 24-Nov-15

CLIENT: SLR International Corp. **Collection Date:** 11/16/2015 3:25:00 PM

Project: Lampros / 108.00895.00003

Lab ID: 1511144-002

Client Sample ID: CB-33-Post

Matrix: STORM WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NWTPH-DX - RBC		NWTPH-DX				Analyst: BS
Diesel	0.549	0.0906	K	mg/L	1	11/20/2015 7:26:35 PM
Lube Oil	1.98	0.227		mg/L	1	11/20/2015 7:26:35 PM
Surr: o-Terphenyl	102	50-150		%REC	1	11/20/2015 7:26:35 PM
NWTPH-GX		NWTPH-GX				Analyst: BS
Gasoline	ND	100		µg/L	1	11/17/2015 12:27:31 PM
Surr: 4-Bromofluorobenzene	129	50-150		%REC	1	11/17/2015 12:27:31 PM
ICP/MS METALS- TOTAL RECOVERABLE		E200.8				Analyst: KP
Aluminum	2600	100		µg/L	10	11/18/2015 6:38:25 PM
Antimony	0.507	0.500		µg/L	1	11/18/2015 2:28:24 PM
Arsenic	0.818	0.100		µg/L	1	11/18/2015 2:28:24 PM
Cadmium	0.308	0.100		µg/L	1	11/18/2015 2:28:24 PM
Chromium	14.4	0.100		µg/L	1	11/18/2015 2:28:24 PM
Copper	23.5	0.500		µg/L	1	11/18/2015 2:28:24 PM
Lead	27.4	0.100		µg/L	1	11/18/2015 2:28:24 PM
Manganese	319	5.00		µg/L	10	11/18/2015 6:38:25 PM
Nickel	6.76	0.500		µg/L	1	11/18/2015 2:28:24 PM
Silver	ND	0.100		µg/L	1	11/18/2015 2:28:24 PM
Zinc	321	20.0		µg/L	10	11/18/2015 6:38:25 PM
TOTAL MERCURY-AQUEOUS		E245.2				Analyst: KP
Mercury	ND	0.000100		mg/L	1	11/18/2015 11:37:12 AM
SEMI-VOLATILE COMPOUNDS - BASE/NEUTRAL SW8270D						Analyst: ajr
Bis(2-ethylhexyl)phthalate	3.08	0.949		µg/L	1	11/18/2015 11:52:00 AM
Butyl benzyl phthalate	ND	0.949		µg/L	1	11/18/2015 11:52:00 AM
Diethyl phthalate	ND	0.949		µg/L	1	11/18/2015 11:52:00 AM
Dimethyl phthalate	ND	0.949		µg/L	1	11/18/2015 11:52:00 AM
Di-n-butyl phthalate	ND	0.949		µg/L	1	11/18/2015 11:52:00 AM
Di-n-octyl phthalate	ND	0.949		µg/L	1	11/18/2015 11:52:00 AM
Surr: 2-Fluorobiphenyl	67.4	33.1-96.2		%REC	1	11/18/2015 11:52:00 AM
Surr: 4-Terphenyl-d14	87.6	41-122		%REC	1	11/18/2015 11:52:00 AM
Surr: Nitrobenzene-d5	65.1	28.9-99.9		%REC	1	11/18/2015 11:52:00 AM
PAH'S BY GC/MS - LOW LEVEL		SW8270D				Analyst: ajr
Acenaphthene	ND	0.0474		µg/L	1	11/23/2015 7:36:00 PM
Acenaphthylene	ND	0.0474		µg/L	1	11/23/2015 7:36:00 PM
Anthracene	0.0664	0.0474		µg/L	1	11/23/2015 7:36:00 PM
Benz(a)anthracene	0.284	0.0474		µg/L	1	11/23/2015 7:36:00 PM

Specialty Analytical

Date Reported: 24-Nov-15

CLIENT:	SLR International Corp.	Collection Date:	11/16/2015 3:25:00 PM
Project:	Lampros / 108.00895.00003		
Lab ID:	1511144-002		
Client Sample ID:	CB-33-Post	Matrix:	STORM WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
PAH'S BY GC/MS - LOW LEVEL						
Benzo(a)pyrene	0.341	0.0474		µg/L	1	11/23/2015 7:36:00 PM
Benzo(b)fluoranthene	0.550	0.0474		µg/L	1	11/23/2015 7:36:00 PM
Benzo(g,h,i)perylene	0.445	0.0474		µg/L	1	11/23/2015 7:36:00 PM
Benzo(k)fluoranthene	0.152	0.0474		µg/L	1	11/23/2015 7:36:00 PM
Chrysene	0.483	0.0474		µg/L	1	11/23/2015 7:36:00 PM
Dibenz(a,h)anthracene	ND	0.0474		µg/L	1	11/23/2015 7:36:00 PM
Fluoranthene	0.768	0.0474		µg/L	1	11/23/2015 7:36:00 PM
Fluorene	ND	0.0474		µg/L	1	11/23/2015 7:36:00 PM
Indeno(1,2,3-cd)pyrene	0.332	0.0474		µg/L	1	11/23/2015 7:36:00 PM
Naphthalene	ND	0.0474		µg/L	1	11/23/2015 7:36:00 PM
Phenanthrene	0.569	0.0474		µg/L	1	11/23/2015 7:36:00 PM
Pyrene	0.796	0.0474		µg/L	1	11/23/2015 7:36:00 PM
Surr: 2-Fluorobiphenyl	70.8	18.6-106		%REC	1	11/23/2015 7:36:00 PM
Surr: Nitrobenzene-d5	63.4	17-130		%REC	1	11/23/2015 7:36:00 PM
Surr: Terphenyl-d14	72.9	39.6-131		%REC	1	11/23/2015 7:36:00 PM
PCB'S IN LIQUID						
		SW 8082A				Analyst: BS
Aroclor 1016	ND	0.0196		µg/L	1	11/19/2015 1:18:00 AM
Aroclor 1221	ND	0.0196		µg/L	1	11/19/2015 1:18:00 AM
Aroclor 1232	ND	0.0196		µg/L	1	11/19/2015 1:18:00 AM
Aroclor 1242	ND	0.0196		µg/L	1	11/19/2015 1:18:00 AM
Aroclor 1248	ND	0.0196		µg/L	1	11/19/2015 1:18:00 AM
Aroclor 1254	ND	0.0196		µg/L	1	11/19/2015 1:18:00 AM
Aroclor 1260	ND	0.0196		µg/L	1	11/19/2015 1:18:00 AM
Aroclor 1262	ND	0.0196		µg/L	1	11/19/2015 1:18:00 AM
Aroclor 1268	ND	0.0196		µg/L	1	11/19/2015 1:18:00 AM
Surr: Decachlorobiphenyl	96.7	45-107		%REC	1	11/19/2015 1:18:00 AM
ORGANIC CARBON, TOTAL						
Organic Carbon, Total	5.85	1.00		mg/L	1	11/18/2015 11:32:22 AM
TOTAL SUSPENDED SOLIDS						
Total Suspended Solids	191	5.00		mg/L	1	11/17/2015 9:45:00 AM

Specialty Analytical

Date Reported: 24-Nov-15

CLIENT: SLR International Corp. **Collection Date:** 11/16/2015 4:00:00 PM

Project: Lampros / 108.00895.00003

Lab ID: 1511144-003

Client Sample ID: CB-25

Matrix: STORM WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NWTPH-DX - RBC		NWTPH-DX				Analyst: BS
Diesel	0.865	0.0774	K	mg/L	1	11/20/2015 7:48:35 PM
Lube Oil	2.97	0.194		mg/L	1	11/20/2015 7:48:35 PM
Surr: o-Terphenyl	101	50-150		%REC	1	11/20/2015 7:48:35 PM
NWTPH-GX		NWTPH-GX				Analyst: BS
Gasoline	ND	100		µg/L	1	11/17/2015 1:23:31 PM
Surr: 4-Bromofluorobenzene	115	50-150		%REC	1	11/17/2015 1:23:31 PM
ICP/MS METALS- TOTAL RECOVERABLE		E200.8				Analyst: KP
Aluminum	8340	100		µg/L	10	11/18/2015 6:41:48 PM
Antimony	0.834	0.500		µg/L	1	11/18/2015 2:31:46 PM
Arsenic	2.18	0.100		µg/L	1	11/18/2015 2:31:46 PM
Cadmium	0.875	0.100		µg/L	1	11/18/2015 2:31:46 PM
Chromium	36.4	0.100		µg/L	1	11/18/2015 2:31:46 PM
Copper	64.1	0.500		µg/L	1	11/18/2015 2:31:46 PM
Lead	50.8	0.100		µg/L	1	11/18/2015 2:31:46 PM
Manganese	770	5.00		µg/L	10	11/18/2015 6:41:48 PM
Nickel	21.9	0.500		µg/L	1	11/18/2015 2:31:46 PM
Silver	ND	0.100		µg/L	1	11/18/2015 2:31:46 PM
Zinc	1990	200		µg/L	100	11/20/2015 10:58:07 AM
TOTAL MERCURY-AQUEOUS		E245.2				Analyst: KP
Mercury	ND	0.000100		mg/L	1	11/18/2015 11:39:12 AM
SEMI-VOLATILE COMPOUNDS - BASE/NEUTRAL SW8270D						Analyst: ajr
Bis(2-ethylhexyl)phthalate	2.75	0.969		µg/L	1	11/18/2015 12:18:00 PM
Butyl benzyl phthalate	ND	0.969		µg/L	1	11/18/2015 12:18:00 PM
Diethyl phthalate	ND	0.969		µg/L	1	11/18/2015 12:18:00 PM
Dimethyl phthalate	ND	0.969		µg/L	1	11/18/2015 12:18:00 PM
Di-n-butyl phthalate	ND	0.969		µg/L	1	11/18/2015 12:18:00 PM
Di-n-octyl phthalate	ND	0.969		µg/L	1	11/18/2015 12:18:00 PM
Surr: 2-Fluorobiphenyl	72.0	33.1-96.2		%REC	1	11/18/2015 12:18:00 PM
Surr: 4-Terphenyl-d14	94.0	41-122		%REC	1	11/18/2015 12:18:00 PM
Surr: Nitrobenzene-d5	70.4	28.9-99.9		%REC	1	11/18/2015 12:18:00 PM
PAH'S BY GC/MS - LOW LEVEL		SW8270D				Analyst: ajr
Acenaphthene	ND	0.0485		µg/L	1	11/23/2015 8:01:00 PM
Acenaphthylene	0.0874	0.0485		µg/L	1	11/23/2015 8:01:00 PM
Anthracene	0.0971	0.0485		µg/L	1	11/23/2015 8:01:00 PM
Benz(a)anthracene	0.194	0.0485		µg/L	1	11/23/2015 8:01:00 PM

Specialty Analytical

Date Reported: 24-Nov-15

CLIENT:	SLR International Corp.	Collection Date:	11/16/2015 4:00:00 PM
Project:	Lampros / 108.00895.00003		
Lab ID:	1511144-003		
Client Sample ID:	CB-25	Matrix:	STORM WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
PAH'S BY GC/MS - LOW LEVEL						
Benzo(a)pyrene	0.427	0.0485		µg/L	1	11/23/2015 8:01:00 PM
Benzo(b)fluoranthene	0.515	0.0485		µg/L	1	11/23/2015 8:01:00 PM
Benzo(g,h,i)perylene	0.777	0.0485		µg/L	1	11/23/2015 8:01:00 PM
Benzo(k)fluoranthene	0.194	0.0485		µg/L	1	11/23/2015 8:01:00 PM
Chrysene	0.417	0.0485		µg/L	1	11/23/2015 8:01:00 PM
Dibenz(a,h)anthracene	0.117	0.0485		µg/L	1	11/23/2015 8:01:00 PM
Fluoranthene	0.408	0.0485		µg/L	1	11/23/2015 8:01:00 PM
Fluorene	ND	0.0485		µg/L	1	11/23/2015 8:01:00 PM
Indeno(1,2,3-cd)pyrene	0.466	0.0485		µg/L	1	11/23/2015 8:01:00 PM
Naphthalene	ND	0.0485		µg/L	1	11/23/2015 8:01:00 PM
Phenanthrene	0.243	0.0485		µg/L	1	11/23/2015 8:01:00 PM
Pyrene	0.660	0.0485		µg/L	1	11/23/2015 8:01:00 PM
Surr: 2-Fluorobiphenyl	73.5	18.6-106		%REC	1	11/23/2015 8:01:00 PM
Surr: Nitrobenzene-d5	69.1	17-130		%REC	1	11/23/2015 8:01:00 PM
Surr: Terphenyl-d14	80.0	39.6-131		%REC	1	11/23/2015 8:01:00 PM
PCB'S IN LIQUID						
		SW 8082A				Analyst: BS
Aroclor 1016	ND	0.0216		µg/L	1	11/19/2015 1:34:00 AM
Aroclor 1221	ND	0.0216		µg/L	1	11/19/2015 1:34:00 AM
Aroclor 1232	ND	0.0216		µg/L	1	11/19/2015 1:34:00 AM
Aroclor 1242	ND	0.0216		µg/L	1	11/19/2015 1:34:00 AM
Aroclor 1248	ND	0.0216		µg/L	1	11/19/2015 1:34:00 AM
Aroclor 1254	ND	0.0216		µg/L	1	11/19/2015 1:34:00 AM
Aroclor 1260	ND	0.0216		µg/L	1	11/19/2015 1:34:00 AM
Aroclor 1262	ND	0.0216		µg/L	1	11/19/2015 1:34:00 AM
Aroclor 1268	ND	0.0216		µg/L	1	11/19/2015 1:34:00 AM
Surr: Decachlorobiphenyl	80.8	45-107		%REC	1	11/19/2015 1:34:00 AM
ORGANIC CARBON, TOTAL						
Organic Carbon, Total	4.45	1.00		mg/L	1	11/18/2015 12:02:22 PM
TOTAL SUSPENDED SOLIDS						
Total Suspended Solids	234	5.00		mg/L	1	11/17/2015 9:47:00 AM

Specialty Analytical

Date Reported: 24-Nov-15

CLIENT: SLR International Corp. **Collection Date:** 11/16/2015 4:10:00 PM

Project: Lampros / 108.00895.00003

Lab ID: 1511144-004

Client Sample ID: CB-11-Pre

Matrix: STORM WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ICP/MS METALS- TOTAL RECOVERABLE	E200.8					Analyst: KP
Aluminum	449	10.0		µg/L	1	11/18/2015 2:45:51 PM
Antimony	ND	0.500		µg/L	1	11/18/2015 2:45:51 PM
Arsenic	0.362	0.100		µg/L	1	11/18/2015 2:45:51 PM
Cadmium	ND	0.100		µg/L	1	11/18/2015 2:45:51 PM
Chromium	1.12	0.100		µg/L	1	11/18/2015 2:45:51 PM
Copper	6.52	0.500		µg/L	1	11/18/2015 2:45:51 PM
Lead	2.27	0.100		µg/L	1	11/18/2015 2:45:51 PM
Manganese	36.5	0.500		µg/L	1	11/18/2015 2:45:51 PM
Nickel	2.01	0.500		µg/L	1	11/18/2015 2:45:51 PM
Silver	ND	0.100		µg/L	1	11/18/2015 2:45:51 PM
Zinc	44.9	2.00		µg/L	1	11/18/2015 2:45:51 PM
TOTAL MERCURY-AQUEOUS	E245.2					Analyst: KP
Mercury	ND	0.000100		mg/L	1	11/18/2015 11:46:12 AM
TOTAL SUSPENDED SOLIDS	M2540 D					Analyst: BW
Total Suspended Solids	18.0	5.00		mg/L	1	11/17/2015 9:49:00 AM

Specialty Analytical

Date Reported: 24-Nov-15

CLIENT: SLR International Corp. **Collection Date:** 11/16/2015 4:25:00 PM

Project: Lampros / 108.00895.00003

Lab ID: 1511144-005

Client Sample ID: CB-11-Post

Matrix: STORM WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NWTPH-DX - RBC		NWTPH-DX				Analyst: BS
Diesel	0.537	0.0816	K	mg/L	1	11/20/2015 8:10:35 PM
Lube Oil	1.56	0.204		mg/L	1	11/20/2015 8:10:35 PM
Surr: o-Terphenyl	109	50-150		%REC	1	11/20/2015 8:10:35 PM
NWTPH-GX		NWTPH-GX				Analyst: BS
Gasoline	ND	100		µg/L	1	11/17/2015 1:52:31 PM
Surr: 4-Bromofluorobenzene	113	50-150		%REC	1	11/17/2015 1:52:31 PM
ICP/MS METALS- TOTAL RECOVERABLE		E200.8				Analyst: KP
Aluminum	727	10.0		µg/L	1	11/18/2015 2:49:13 PM
Antimony	ND	0.500		µg/L	1	11/18/2015 2:49:13 PM
Arsenic	0.477	0.100		µg/L	1	11/18/2015 2:49:13 PM
Cadmium	ND	0.100		µg/L	1	11/18/2015 2:49:13 PM
Chromium	2.25	0.100		µg/L	1	11/18/2015 2:49:13 PM
Copper	8.76	0.500		µg/L	1	11/18/2015 2:49:13 PM
Lead	3.65	0.100		µg/L	1	11/18/2015 2:49:13 PM
Manganese	53.3	0.500		µg/L	1	11/18/2015 2:49:13 PM
Nickel	3.08	0.500		µg/L	1	11/18/2015 2:49:13 PM
Silver	ND	0.100		µg/L	1	11/18/2015 2:49:13 PM
Zinc	66.3	2.00		µg/L	1	11/18/2015 2:49:13 PM
TOTAL MERCURY-AQUEOUS		E245.2				Analyst: KP
Mercury	ND	0.000100		mg/L	1	11/18/2015 11:48:12 AM
SEMI-VOLATILE COMPOUNDS - BASE/NEUTRAL SW8270D						Analyst: ajr
Bis(2-ethylhexyl)phthalate	1.21	0.997		µg/L	1	11/18/2015 12:45:00 PM
Butyl benzyl phthalate	ND	0.997		µg/L	1	11/18/2015 12:45:00 PM
Diethyl phthalate	ND	0.997		µg/L	1	11/18/2015 12:45:00 PM
Dimethyl phthalate	ND	0.997		µg/L	1	11/18/2015 12:45:00 PM
Di-n-butyl phthalate	ND	0.997		µg/L	1	11/18/2015 12:45:00 PM
Di-n-octyl phthalate	ND	0.997		µg/L	1	11/18/2015 12:45:00 PM
Surr: 2-Fluorobiphenyl	70.9	33.1-96.2		%REC	1	11/18/2015 12:45:00 PM
Surr: 4-Terphenyl-d14	91.4	41-122		%REC	1	11/18/2015 12:45:00 PM
Surr: Nitrobenzene-d5	72.9	28.9-99.9		%REC	1	11/18/2015 12:45:00 PM
PAH'S BY GC/MS - LOW LEVEL		SW8270D				Analyst: ajr
Acenaphthene	ND	0.0548		µg/L	1	11/23/2015 8:26:00 PM
Acenaphthylene	ND	0.0548		µg/L	1	11/23/2015 8:26:00 PM
Anthracene	ND	0.0548		µg/L	1	11/23/2015 8:26:00 PM
Benz(a)anthracene	ND	0.0548		µg/L	1	11/23/2015 8:26:00 PM

Specialty Analytical

Date Reported: 24-Nov-15

CLIENT: SLR International Corp. **Collection Date:** 11/16/2015 4:25:00 PM

Project: Lampros / 108.00895.00003

Lab ID: 1511144-005

Client Sample ID: CB-11-Post

Matrix: STORM WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
PAH'S BY GC/MS - LOW LEVEL						
Benzo(a)pyrene	ND	0.0548		µg/L	1	11/23/2015 8:26:00 PM
Benzo(b)fluoranthene	0.131	0.0548		µg/L	1	11/23/2015 8:26:00 PM
Benzo(g,h,i)perylene	0.120	0.0548		µg/L	1	11/23/2015 8:26:00 PM
Benzo(k)fluoranthene	ND	0.0548		µg/L	1	11/23/2015 8:26:00 PM
Chrysene	0.0986	0.0548		µg/L	1	11/23/2015 8:26:00 PM
Dibenz(a,h)anthracene	ND	0.0548		µg/L	1	11/23/2015 8:26:00 PM
Fluoranthene	0.0876	0.0548		µg/L	1	11/23/2015 8:26:00 PM
Fluorene	ND	0.0548		µg/L	1	11/23/2015 8:26:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.0548		µg/L	1	11/23/2015 8:26:00 PM
Naphthalene	ND	0.0548		µg/L	1	11/23/2015 8:26:00 PM
Phenanthrene	0.120	0.0548		µg/L	1	11/23/2015 8:26:00 PM
Pyrene	0.175	0.0548		µg/L	1	11/23/2015 8:26:00 PM
Surr: 2-Fluorobiphenyl	78.2	18.6-106		%REC	1	11/23/2015 8:26:00 PM
Surr: Nitrobenzene-d5	75.5	17-130		%REC	1	11/23/2015 8:26:00 PM
Surr: Terphenyl-d14	87.2	39.6-131		%REC	1	11/23/2015 8:26:00 PM
PCB'S IN LIQUID						
Aroclor 1016	ND	0.0217		µg/L	1	11/19/2015 1:51:00 AM
Aroclor 1221	ND	0.0217		µg/L	1	11/19/2015 1:51:00 AM
Aroclor 1232	ND	0.0217		µg/L	1	11/19/2015 1:51:00 AM
Aroclor 1242	ND	0.0217		µg/L	1	11/19/2015 1:51:00 AM
Aroclor 1248	ND	0.0217		µg/L	1	11/19/2015 1:51:00 AM
Aroclor 1254	ND	0.0217		µg/L	1	11/19/2015 1:51:00 AM
Aroclor 1260	ND	0.0217		µg/L	1	11/19/2015 1:51:00 AM
Aroclor 1262	ND	0.0217		µg/L	1	11/19/2015 1:51:00 AM
Aroclor 1268	ND	0.0217		µg/L	1	11/19/2015 1:51:00 AM
Surr: Decachlorobiphenyl	102	45-107		%REC	1	11/19/2015 1:51:00 AM
ORGANIC CARBON, TOTAL						
Organic Carbon, Total	9.51	1.00		mg/L	1	11/18/2015 12:32:22 PM
TOTAL SUSPENDED SOLIDS						
Total Suspended Solids	31.0	5.00		mg/L	1	11/17/2015 9:51:00 AM

Specialty Analytical

Date Reported: 24-Nov-15

CLIENT: SLR International Corp. **Collection Date:** 11/16/2015 4:30:00 PM

Project: Lampros / 108.00895.00003

Lab ID: 1511144-006

Client Sample ID: CB-3-Pre

Matrix: STORM WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ICP/MS METALS- TOTAL RECOVERABLE	E200.8					Analyst: KP
Aluminum	8620	100		µg/L	10	11/18/2015 6:45:10 PM
Antimony	0.668	0.500		µg/L	1	11/18/2015 2:52:36 PM
Arsenic	1.09	0.100		µg/L	1	11/18/2015 2:52:36 PM
Cadmium	0.216	0.100		µg/L	1	11/18/2015 2:52:36 PM
Chromium	14.9	0.100		µg/L	1	11/18/2015 2:52:36 PM
Copper	39.6	0.500		µg/L	1	11/18/2015 2:52:36 PM
Lead	17.3	0.100		µg/L	1	11/18/2015 2:52:36 PM
Manganese	357	5.00		µg/L	10	11/18/2015 6:45:10 PM
Nickel	15.6	0.500		µg/L	1	11/18/2015 2:52:36 PM
Silver	ND	0.100		µg/L	1	11/18/2015 2:52:36 PM
Zinc	417	20.0		µg/L	10	11/18/2015 6:45:10 PM
TOTAL MERCURY-AQUEOUS	E245.2					Analyst: KP
Mercury	ND	0.000100		mg/L	1	11/18/2015 11:50:12 AM
TOTAL SUSPENDED SOLIDS	M2540 D					Analyst: BW
Total Suspended Solids	76.0	5.00		mg/L	1	11/17/2015 9:53:00 AM

Specialty Analytical

Date Reported: 24-Nov-15

CLIENT: SLR International Corp. Collection Date: 11/16/2015 4:45:00 PM

Project: Lampros / 108.00895.00003

Lab ID: 1511144-007

Client Sample ID: CB-3-Post

Matrix: STORM WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NWTPH-DX - RBC		NWTPH-DX				Analyst: BS
Diesel	0.584	0.105	K	mg/L	1	11/20/2015 8:32:35 PM
Lube Oil	2.46	0.262		mg/L	1	11/20/2015 8:32:35 PM
Surr: o-Terphenyl	123	50-150		%REC	1	11/20/2015 8:32:35 PM
NWTPH-GX		NWTPH-GX				Analyst: BS
Gasoline	ND	100		µg/L	1	11/17/2015 2:20:31 PM
Surr: 4-Bromofluorobenzene	118	50-150		%REC	1	11/17/2015 2:20:31 PM
ICP/MS METALS- TOTAL RECOVERABLE		E200.8				Analyst: KP
Aluminum	7550	100		µg/L	10	11/18/2015 6:48:33 PM
Antimony	ND	0.500		µg/L	1	11/18/2015 2:55:58 PM
Arsenic	0.976	0.100		µg/L	1	11/18/2015 2:55:58 PM
Cadmium	0.220	0.100		µg/L	1	11/18/2015 2:55:58 PM
Chromium	13.4	0.100		µg/L	1	11/18/2015 2:55:58 PM
Copper	32.2	0.500		µg/L	1	11/18/2015 2:55:58 PM
Lead	15.5	0.100		µg/L	1	11/18/2015 2:55:58 PM
Manganese	306	5.00		µg/L	10	11/18/2015 6:48:33 PM
Nickel	12.4	0.500		µg/L	1	11/18/2015 2:55:58 PM
Silver	ND	0.100		µg/L	1	11/18/2015 2:55:58 PM
Zinc	375	20.0		µg/L	10	11/18/2015 6:48:33 PM
TOTAL MERCURY-AQUEOUS		E245.2				Analyst: KP
Mercury	ND	0.000100		mg/L	1	11/18/2015 11:52:12 AM
SEMI-VOLATILE COMPOUNDS - BASE/NEUTRAL SW8270D						Analyst: ajr
Bis(2-ethylhexyl)phthalate	4.48	1.26		µg/L	1	11/18/2015 1:11:00 PM
Butyl benzyl phthalate	ND	1.26		µg/L	1	11/18/2015 1:11:00 PM
Diethyl phthalate	ND	1.26		µg/L	1	11/18/2015 1:11:00 PM
Dimethyl phthalate	ND	1.26		µg/L	1	11/18/2015 1:11:00 PM
Di-n-butyl phthalate	ND	1.26		µg/L	1	11/18/2015 1:11:00 PM
Di-n-octyl phthalate	ND	1.26		µg/L	1	11/18/2015 1:11:00 PM
Surr: 2-Fluorobiphenyl	67.8	33.1-96.2		%REC	1	11/18/2015 1:11:00 PM
Surr: 4-Terphenyl-d14	88.3	41-122		%REC	1	11/18/2015 1:11:00 PM
Surr: Nitrobenzene-d5	64.2	28.9-99.9		%REC	1	11/18/2015 1:11:00 PM
PAH'S BY GC/MS - LOW LEVEL		SW8270D				Analyst: ajr
Acenaphthene	ND	0.0572		µg/L	1	11/23/2015 9:41:00 PM
Acenaphthylene	ND	0.0572		µg/L	1	11/23/2015 9:41:00 PM
Anthracene	ND	0.0572		µg/L	1	11/23/2015 9:41:00 PM
Benz(a)anthracene	0.103	0.0572		µg/L	1	11/23/2015 9:41:00 PM

Specialty Analytical

Date Reported: 24-Nov-15

CLIENT:	SLR International Corp.	Collection Date:	11/16/2015 4:45:00 PM
Project:	Lampros / 108.00895.00003		
Lab ID:	1511144-007		
Client Sample ID:	CB-3-Post	Matrix:	STORM WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
PAH'S BY GC/MS - LOW LEVEL						
Benzo(a)pyrene	0.172	0.0572		µg/L	1	11/23/2015 9:41:00 PM
Benzo(b)fluoranthene	0.206	0.0572		µg/L	1	11/23/2015 9:41:00 PM
Benzo(g,h,i)perylene	0.366	0.0572		µg/L	1	11/23/2015 9:41:00 PM
Benzo(k)fluoranthene	ND	0.0572		µg/L	1	11/23/2015 9:41:00 PM
Chrysene	0.172	0.0572		µg/L	1	11/23/2015 9:41:00 PM
Dibenz(a,h)anthracene	ND	0.0572		µg/L	1	11/23/2015 9:41:00 PM
Fluoranthene	0.263	0.0572		µg/L	1	11/23/2015 9:41:00 PM
Fluorene	ND	0.0572		µg/L	1	11/23/2015 9:41:00 PM
Indeno(1,2,3-cd)pyrene	0.183	0.0572		µg/L	1	11/23/2015 9:41:00 PM
Naphthalene	ND	0.0572		µg/L	1	11/23/2015 9:41:00 PM
Phenanthrene	0.149	0.0572		µg/L	1	11/23/2015 9:41:00 PM
Pyrene	0.458	0.0572		µg/L	1	11/23/2015 9:41:00 PM
Surr: 2-Fluorobiphenyl	73.8	18.6-106		%REC	1	11/23/2015 9:41:00 PM
Surr: Nitrobenzene-d5	68.6	17-130		%REC	1	11/23/2015 9:41:00 PM
Surr: Terphenyl-d14	86.4	39.6-131		%REC	1	11/23/2015 9:41:00 PM
PCB'S IN LIQUID						
		SW 8082A				Analyst: BS
Aroclor 1016	ND	0.0320		µg/L	1	11/19/2015 2:08:00 AM
Aroclor 1221	ND	0.0320		µg/L	1	11/19/2015 2:08:00 AM
Aroclor 1232	ND	0.0320		µg/L	1	11/19/2015 2:08:00 AM
Aroclor 1242	ND	0.0320		µg/L	1	11/19/2015 2:08:00 AM
Aroclor 1248	ND	0.0320		µg/L	1	11/19/2015 2:08:00 AM
Aroclor 1254	ND	0.0320		µg/L	1	11/19/2015 2:08:00 AM
Aroclor 1260	ND	0.0320		µg/L	1	11/19/2015 2:08:00 AM
Aroclor 1262	ND	0.0320		µg/L	1	11/19/2015 2:08:00 AM
Aroclor 1268	ND	0.0320		µg/L	1	11/19/2015 2:08:00 AM
Surr: Decachlorobiphenyl	95.4	45-107		%REC	1	11/19/2015 2:08:00 AM
ORGANIC CARBON, TOTAL						
Organic Carbon, Total	4.44	1.00		mg/L	1	11/18/2015 1:02:22 PM
TOTAL SUSPENDED SOLIDS						
Total Suspended Solids	94.0	5.00		mg/L	1	11/17/2015 9:55:00 AM

QC SUMMARY REPORT

WO#: 1511144
24-Nov-15

Specialty Analytical

Client: SLR International Corp.
Project: Lampros / 108.00895.00003

TestCode: 200.8

Sample ID: ICV	SampType: ICV	TestCode: 200.8	Units: µg/L	Prep Date:	RunNo: 22676						
Client ID: ICV	Batch ID: 10327	TestNo: E200.8	E200.8	Analysis Date: 11/18/2015	SeqNo: 303925						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	484	10.0	500.0	0	96.8	90	110				
Antimony	49.2	0.500	50.00	0	98.3	90	110				
Arsenic	47.4	0.100	50.00	0	94.7	90	110				
Cadmium	47.7	0.100	50.00	0	95.5	90	110				
Chromium	48.9	0.100	50.00	0	97.7	90	110				
Copper	48.8	0.500	50.00	0	97.7	90	110				
Lead	48.3	0.100	50.00	0	96.6	90	110				
Manganese	46.9	0.500	50.00	0	93.8	90	110				
Nickel	48.3	0.500	50.00	0	96.7	90	110				
Silver	48.5	0.100	50.00	0	97.0	90	110				
Zinc	48.0	2.00	50.00	0	95.9	90	110				

Sample ID: MB-10327	SampType: MBLK	TestCode: 200.8	Units: µg/L	Prep Date: 11/17/2015	RunNo: 22676						
Client ID: PBW	Batch ID: 10327	TestNo: E200.8	E200.8	Analysis Date: 11/18/2015	SeqNo: 303928						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	ND	10.0									
Antimony	ND	0.500									
Arsenic	ND	0.100									
Cadmium	ND	0.100									
Chromium	ND	0.100									
Copper	ND	0.500									
Lead	ND	0.100									
Manganese	ND	0.500									

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSDLimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted reco

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QC SUMMARY REPORT

WO#: 1511144
24-Nov-15

Specialty Analytical

Client: SLR International Corp.

Project: Lampros / 108.00895.00003

TestCode: 200.8

Sample ID: MB-10327	SampType: MBLK	TestCode: 200.8	Units: µg/L	Prep Date: 11/17/2015	RunNo: 22676
Client ID: PBW	Batch ID: 10327	TestNo: E200.8	E200.8	Analysis Date: 11/18/2015	SeqNo: 303928
Analyte					
Nickel	Result	PQL	SPK value	SPK Ref Val	%REC
ND	0.500				
Silver		ND	0.100		
Zinc		ND	2.00		

Sample ID: LCS-10327	SampType: LCS	TestCode: 200.8	Units: µg/L	Prep Date: 11/17/2015	RunNo: 22676
Client ID: LCSW	Batch ID: 10327	TestNo: E200.8	E200.8	Analysis Date: 11/18/2015	SeqNo: 303929
Analyte					
Antimony	Result	PQL	SPK value	SPK Ref Val	%REC
47.8	0.500	50.00	0	95.7	85 115
Arsenic		0.100	50.00	0	97.8 85 115
Cadmium		0.100	50.00	0	103 85 115
Chromium		0.100	50.00	0	89.1 85 115
Copper		0.500	50.00	0	96.1 85 115
Lead		0.100	50.00	0	98.0 85 115
Manganese		0.500	50.00	0	92.3 85 115
Nickel		0.500	50.00	0	94.2 85 115
Silver		0.100	50.00	0	94.7 85 115
Zinc		2.00	50.00	0	102 85 115

Sample ID: 1511123-001CDUP	SampType: DUP	TestCode: 200.8	Units: µg/L	Prep Date: 11/17/2015	RunNo: 22676
Client ID: ZZZZZZ	Batch ID: 10327	TestNo: E200.8	E200.8	Analysis Date: 11/18/2015	SeqNo: 303931
Analyte					
	Result	PQL	SPK value	SPK Ref Val	%REC

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSDlimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted reco

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QC SUMMARY REPORT

WO#: 1511144
24-Nov-15

Specialty Analytical

Client: SLR International Corp.

Project: Lampros / 108.00895.00003

TestCode: 200.8

Sample ID: 1511123-001CDUP	SampType: DUP	TestCode: 200.8	Units: µg/L	Prep Date: 11/17/2015	RunNo: 22676
Client ID: ZZZZZZ	Batch ID: 10327	TestNo: E200.8	E200.8	Analysis Date: 11/18/2015	SeqNo: 303931
<hr/>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Antimony	6.24	0.500			6.293
Arsenic	2.36	0.100			2.340
Cadmium	5.23	0.100			5.266
Chromium	13.2	0.100			12.95
Nickel	17.6	0.500			17.23
Silver	1.86	0.100			1.831

Sample ID: 1511123-001CMS	SampType: MS	TestCode: 200.8	Units: µg/L	Prep Date: 11/17/2015	RunNo: 22676
Client ID: ZZZZZZ	Batch ID: 10327	TestNo: E200.8	E200.8	Analysis Date: 11/18/2015	SeqNo: 303932
<hr/>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Antimony	23.7	0.500	50.00	6.293	34.8
Arsenic	48.6	0.100	50.00	2.340	92.6
Cadmium	56.6	0.100	50.00	5.266	103
Chromium	59.2	0.100	50.00	12.95	92.6
Nickel	64.7	0.500	50.00	17.23	95.0
Silver	45.7	0.100	50.00	1.831	87.7

Sample ID: 1511123-001CMSD	SampType: MSD	TestCode: 200.8	Units: µg/L	Prep Date: 11/17/2015	RunNo: 22676
Client ID: ZZZZZZ	Batch ID: 10327	TestNo: E200.8	E200.8	Analysis Date: 11/18/2015	SeqNo: 303933
<hr/>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Antimony	24.8	0.500	50.00	6.293	37.1

Qualifiers:	B	Analyte detected in the associated Method Blank	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit	Page 3 of 30
	O	RSD is greater than RSDlimit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted reco	

QC SUMMARY REPORT

WO#: 1511144
24-Nov-15

Specialty Analytical

Client: SLR International Corp.

Project: Lampros / 108.00895.00003

TestCode: 200.8

Sample ID: 1511123-001CMSD	SampType: MSD	TestCode: 200.8	Units: µg/L	Prep Date: 11/17/2015	RunNo: 22676
Client ID: ZZZZZZ	Batch ID: 10327	TestNo: E200.8	E200.8	Analysis Date: 11/18/2015	SeqNo: 303933
Analyte					
Arsenic	Result	PQL	SPK value	SPK Ref Val	%REC
48.9	0.100	50.00	2.340	93.2	70
Cadmium		0.100	50.00	5.266	102
56.5				70	130
Chromium		0.100	50.00	12.95	92.4
59.1				70	130
Nickel		0.500	50.00	17.23	94.5
64.5				70	130
Silver		0.100	50.00	1.831	90.0
46.8				70	130
					48.63
					0.648
					20

Sample ID: CCV	SampType: CCV	TestCode: 200.8	Units: µg/L	Prep Date:	RunNo: 22676
Client ID: CCV	Batch ID: 10327	TestNo: E200.8	E200.8	Analysis Date: 11/18/2015	SeqNo: 303935
Analyte					
Aluminum	Result	PQL	SPK value	SPK Ref Val	%REC
532	10.0	500.0	0	106	90
Antimony		0.500	50.00	0	93.5
46.8				90	110
Arsenic		0.100	50.00	0	96.0
48.0				90	110
Cadmium		0.100	50.00	0	96.8
48.4				90	110
Chromium		0.100	50.00	0	99.7
49.8				90	110
Copper		0.500	50.00	0	97.3
48.7				90	110
Lead		0.100	50.00	0	93.9
47.0				90	110
Manganese		0.500	50.00	0	96.4
48.2				90	110
Nickel		0.500	50.00	0	97.5
48.8				90	110
Silver		0.100	50.00	0	91.7
45.8				90	110
Zinc		2.00	50.00	0	98.0
49.0				90	110

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSDlimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted reco

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QC SUMMARY REPORT

WO#: 1511144
24-Nov-15

Specialty Analytical

Client: SLR International Corp.

Project: Lampros / 108.00895.00003

TestCode: 200.8

Sample ID: CCV	SampType: CCV	TestCode: 200.8	Units: µg/L	Prep Date:			RunNo: 22676				
Client ID: CCV	Batch ID: 10327	TestNo: E200.8	E200.8	Analysis Date: 11/18/2015			SeqNo: 303940				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	513	10.0	500.0	0	103	90	110				
Antimony	45.7	0.500	50.00	0	91.4	90	110				
Arsenic	48.0	0.100	50.00	0	96.0	90	110				
Cadmium	46.0	0.100	50.00	0	92.1	90	110				
Chromium	48.2	0.100	50.00	0	96.4	90	110				
Copper	50.3	0.500	50.00	0	101	90	110				
Lead	45.8	0.100	50.00	0	91.6	90	110				
Manganese	48.3	0.500	50.00	0	96.6	90	110				
Nickel	48.9	0.500	50.00	0	97.9	90	110				
Silver	45.5	0.100	50.00	0	91.1	90	110				
Zinc	48.7	2.00	50.00	0	97.3	90	110				

Sample ID: CCV	SampType: CCV	TestCode: 200.8	Units: µg/L	Prep Date:			RunNo: 22676				
Client ID: CCV	Batch ID: 10327	TestNo: E200.8	E200.8	Analysis Date: 11/18/2015			SeqNo: 304237				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	479	10.0	500.0	0	95.8	90	110				
Antimony	45.2	0.500	50.00	0	90.4	90	110				
Arsenic	47.2	0.100	50.00	0	94.5	90	110				
Cadmium	45.7	0.100	50.00	0	91.3	90	110				
Chromium	46.2	0.100	50.00	0	92.4	90	110				
Copper	47.5	0.500	50.00	0	95.0	90	110				
Lead	45.7	0.100	50.00	0	91.4	90	110				
Manganese	46.2	0.500	50.00	0	92.3	90	110				

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSDLimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted reco

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QC SUMMARY REPORT

WO#: 1511144
24-Nov-15

Specialty Analytical

Client: SLR International Corp.

Project: Lampros / 108.00895.00003

TestCode: 200.8

Sample ID: CCV	SampType: CCV	TestCode: 200.8	Units: µg/L	Prep Date:	RunNo: 22676
Client ID: CCV	Batch ID: 10327	TestNo: E200.8	E200.8	Analysis Date: 11/18/2015	SeqNo: 304237
Analyte					
Nickel	Result	PQL	SPK value	SPK Ref Val	%REC
	47.4	0.500	50.00	0	94.8
Silver		0.100	50.00	0	90.3
Zinc		2.00	50.00	0	94.6

Sample ID: 1511123-001CDUP	SampType: DUP	TestCode: 200.8	Units: µg/L	Prep Date: 11/17/2015	RunNo: 22676
Client ID: ZZZZZZ	Batch ID: 10327	TestNo: E200.8	E200.8	Analysis Date: 11/18/2015	SeqNo: 304238
Analyte					
Copper	Result	PQL	SPK value	SPK Ref Val	%REC
	205	5.00			210.5
Lead		1.00			181.2
Manganese		5.00			289.0
Zinc		20.0			796.1

Sample ID: 1511123-001CMS	SampType: MS	TestCode: 200.8	Units: µg/L	Prep Date: 11/17/2015	RunNo: 22676
Client ID: ZZZZZZ	Batch ID: 10327	TestNo: E200.8	E200.8	Analysis Date: 11/18/2015	SeqNo: 304239
Analyte					
Copper	Result	PQL	SPK value	SPK Ref Val	%REC
	270	5.00	50.00	210.5	119
Lead		1.00	50.00	181.2	110
Manganese		5.00	50.00	289.0	123
Zinc		20.0	50.00	796.1	154

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSDlimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted reco

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QC SUMMARY REPORT

WO#: 1511144
24-Nov-15

Specialty Analytical

Client: SLR International Corp.

Project: Lampros / 108.00895.00003

TestCode: 200.8

Sample ID: 1511123-001CMSD	SampType: MSD	TestCode: 200.8	Units: $\mu\text{g/L}$	Prep Date: 11/17/2015	RunNo: 22676
Client ID: ZZZZZZ	Batch ID: 10327	TestNo: E200.8	E200.8	Analysis Date: 11/18/2015	SeqNo: 304240
Analyte					
Copper	Result	PQL	SPK value	SPK Ref Val	%REC
Lead	267	5.00	50.00	210.5	112
Manganese	237	1.00	50.00	181.2	111
Zinc	355	5.00	50.00	289.0	132
	874	20.0	50.00	796.1	155

Sample ID: LCS-10327	SampType: LCS	TestCode: 200.8	Units: $\mu\text{g/L}$	Prep Date: 11/17/2015	RunNo: 22676
Client ID: LCSW	Batch ID: 10327	TestNo: E200.8	E200.8	Analysis Date: 11/18/2015	SeqNo: 304241
Analyte					
Aluminum	Result	PQL	SPK value	SPK Ref Val	%REC
	436	10.0	500.0	0	87.2

Sample ID: 1511123-001CDUP	SampType: DUP	TestCode: 200.8	Units: $\mu\text{g/L}$	Prep Date: 11/17/2015	RunNo: 22676
Client ID: ZZZZZZ	Batch ID: 10327	TestNo: E200.8	E200.8	Analysis Date: 11/18/2015	SeqNo: 304243
Analyte					
Aluminum	Result	PQL	SPK value	SPK Ref Val	%REC
	22200	1000			20200

Sample ID: CCV	SampType: CCV	TestCode: 200.8	Units: $\mu\text{g/L}$	Prep Date:	RunNo: 22676
Client ID: CCV	Batch ID: 10327	TestNo: E200.8	E200.8	Analysis Date: 11/18/2015	SeqNo: 304245
Analyte					
Aluminum	Result	PQL	SPK value	SPK Ref Val	%REC
	485	10.0	500.0	0	97.0

Qualifiers:	B	Analyte detected in the associated Method Blank	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit	Page 7 of 30
	O	RSD is greater than RSDlimit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted reco	

QC SUMMARY REPORT

WO#: 1511144
24-Nov-15

Specialty Analytical

Client: SLR International Corp.
Project: Lampros / 108.00895.00003

TestCode: 200.8

Sample ID: CCV	SampType: CCV	TestCode: 200.8	Units: µg/L	Prep Date:			RunNo: 22676				
Client ID: CCV	Batch ID: 10327	TestNo: E200.8	E200.8	Analysis Date: 11/18/2015			SeqNo: 304245				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	46.2	0.500	50.00	0	92.5	90	110				
Arsenic	48.9	0.100	50.00	0	97.8	90	110				
Cadmium	48.9	0.100	50.00	0	97.7	90	110				
Chromium	48.0	0.100	50.00	0	95.9	90	110				
Copper	48.7	0.500	50.00	0	97.5	90	110				
Lead	45.4	0.100	50.00	0	90.7	90	110				
Manganese	46.4	0.500	50.00	0	92.9	90	110				
Nickel	48.4	0.500	50.00	0	96.8	90	110				
Silver	45.8	0.100	50.00	0	91.6	90	110				
Zinc	49.6	2.00	50.00	0	99.3	90	110				

Sample ID: 1511123-001CMS	SampType: MS	TestCode: 200.8	Units: µg/L	Prep Date:	11/17/2015	RunNo: 22676					
Client ID: ZZZZZZ	Batch ID: 10327	TestNo: E200.8	E200.8	Analysis Date:	11/18/2015	SeqNo: 304247					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	21200	1000	500.0	20200	197	70	130				SMC

Sample ID: 1511123-001CMSD	SampType: MSD	TestCode: 200.8	Units: µg/L	Prep Date:	11/17/2015	RunNo: 22676					
Client ID: ZZZZZZ	Batch ID: 10327	TestNo: E200.8	E200.8	Analysis Date:	11/18/2015	SeqNo: 304248					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	21100	1000	500.0	20200	186	70	130	21190	0.261	20	SMC

Qualifiers:	B	Analyte detected in the associated Method Blank	H	Holding times for preparation or analysis exceeded			ND	Not Detected at the Reporting Limit	Page 8 of 30
	O	RSD is greater than RSDLimit	R	RPD outside accepted recovery limits			S	Spike Recovery outside accepted reco	

QC SUMMARY REPORT

WO#: 1511144
24-Nov-15

Specialty Analytical

Client: SLR International Corp.
Project: Lampros / 108.00895.00003

TestCode: 200.8

Sample ID: ICV	SampType: ICV	TestCode: 200.8	Units: µg/L	Prep Date:	RunNo: 22676						
Client ID: ICV	Batch ID: 10327	TestNo: E200.8	E200.8	Analysis Date: 11/20/2015	SeqNo: 304607						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	481	10.0	500.0	0	96.2	90	110				
Copper	46.5	0.500	50.00	0	93.0	90	110				
Lead	46.6	0.100	50.00	0	93.1	90	110				
Manganese	46.9	0.500	50.00	0	93.8	90	110				
Zinc	48.0	2.00	50.00	0	96.0	90	110				

Sample ID: ICV	SampType: ICV	TestCode: 200.8	Units: µg/L	Prep Date:	RunNo: 22676						
Client ID: ICV	Batch ID: 10327	TestNo: E200.8	E200.8	Analysis Date: 11/19/2015	SeqNo: 304612						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	494	10.0	500.0	0	98.8	90	110				
Copper	48.1	0.500	50.00	0	96.3	90	110				
Lead	47.0	0.100	50.00	0	93.9	90	110				
Manganese	48.5	0.500	50.00	0	97.1	90	110				
Zinc	48.3	2.00	50.00	0	96.5	90	110				

Sample ID: CCV	SampType: CCV	TestCode: 200.8	Units: µg/L	Prep Date:	RunNo: 22676						
Client ID: CCV	Batch ID: 10327	TestNo: E200.8	E200.8	Analysis Date: 11/19/2015	SeqNo: 304615						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	510	10.0	500.0	0	102	90	110				
Copper	48.4	0.500	50.00	0	96.9	90	110				
Lead	45.9	0.100	50.00	0	91.8	90	110				

Qualifiers:	B	Analyte detected in the associated Method Blank	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDLimit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted reco

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QC SUMMARY REPORT

WO#: 1511144
24-Nov-15

Specialty Analytical

Client: SLR International Corp.
Project: Lampros / 108.00895.00003

TestCode: 200.8

Sample ID: CCV	SampType: CCV	TestCode: 200.8	Units: µg/L	Prep Date:	RunNo: 22676
Client ID: CCV	Batch ID: 10327	TestNo: E200.8	E200.8	Analysis Date: 11/19/2015	SeqNo: 304615
<hr/>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Manganese	49.7	0.500	50.00	0	99.5
Zinc	49.3	2.00	50.00	0	98.7
				LowLimit	HighLimit
				90	110
				90	110

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSdlimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted reco

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QC SUMMARY REPORT

WO#: 1511144
24-Nov-15

Specialty Analytical

Client: SLR International Corp.

Project: Lampros / 108.00895.00003

TestCode: 8082LL_W

Sample ID: CCV	SampType: CCV	TestCode: 8082LL_W	Units: µg/L	Prep Date:	RunNo: 22694
Client ID: CCV	Batch ID: 10332	TestNo: SW 8082A	SW3510_PCB	Analysis Date: 11/18/2015	SeqNo: 304149
Analyte					
Aroclor 1016/1260	Result	PQL	SPK value	SPK Ref Val	%REC
	2.15	0.0200	2.000	0	107
				85	115

Sample ID: MB-10332	SampType: MBLK	TestCode: 8082LL_W	Units: µg/L	Prep Date: 11/16/2015	RunNo: 22694
Client ID: PBW	Batch ID: 10332	TestNo: SW 8082A	SW3510_PCB	Analysis Date: 11/19/2015	SeqNo: 304150
Analyte					
Aroclor 1016	Result	PQL	SPK value	SPK Ref Val	%REC
	ND	0.0200			
Aroclor 1221		ND	0.0200		
Aroclor 1232		ND	0.0200		
Aroclor 1242		ND	0.0200		
Aroclor 1248		ND	0.0200		
Aroclor 1254		ND	0.0200		
Aroclor 1260		ND	0.0200		
Aroclor 1262		ND	0.0200		
Aroclor 1268		ND	0.0200		
Surr: Decachlorobiphenyl	187		200.0	93.4	45
					107

Sample ID: LCS-10332	SampType: LCS	TestCode: 8082LL_W	Units: µg/L	Prep Date: 11/16/2015	RunNo: 22694
Client ID: LCSW	Batch ID: 10332	TestNo: SW 8082A	SW3510_PCB	Analysis Date: 11/19/2015	SeqNo: 304151
Analyte					
Aroclor 1016/1260	Result	PQL	SPK value	SPK Ref Val	%REC
	1.68	0.0200	2.000	0	84.1
				40.4	110

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSDlimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted reco

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QC SUMMARY REPORT

WO#: 1511144
24-Nov-15

Specialty Analytical

Client: SLR International Corp.
Project: Lampros / 108.00895.00003

TestCode: 8082LL_W

Sample ID: CCV	SampType: CCV	TestCode: 8082LL_W	Units: µg/L	Prep Date:	RunNo: 22694
Client ID: CCV	Batch ID: 10332	TestNo: SW 8082A	SW3510_PCB	Analysis Date: 11/19/2015	SeqNo: 304156
<hr/>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Aroclor 1016/1260	2.15	0.0200	2.000	0	108
				85	115
				%RPD	RPDLimit
					Qual

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSDLimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted reco

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QC SUMMARY REPORT

WO#: 1511144
24-Nov-15

Specialty Analytical

Client: SLR International Corp.

Project: Lampros / 108.00895.00003

TestCode: 8270BN_W

Sample ID: CCV MSSWS-1375	SampType: CCV	TestCode: 8270BN_W	Units: µg/L	Prep Date:				RunNo: 22670
Client ID: CCV	Batch ID: 10323	TestNo: SW8270D	SW 3510C	Analysis Date: 11/17/2015				SeqNo: 303872
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val
Bis(2-ethylhexyl)phthalate	46.7	1.00	40.00	0	117	80	120	
Butyl benzyl phthalate	41.7	1.00	40.00	0	104	80	120	
Diethyl phthalate	37.8	1.00	40.00	0	94.5	80	120	
Dimethyl phthalate	40.7	1.00	40.00	0	102	80	120	
Di-n-butyl phthalate	32.3	1.00	40.00	0	80.7	80	120	
Di-n-octyl phthalate	41.5	1.00	40.00	0	104	80	120	

Sample ID: LCS-10323	SampType: LCS	TestCode: 8270BN_W	Units: µg/L	Prep Date: 11/16/2015				RunNo: 22670
Client ID: LCSW	Batch ID: 10323	TestNo: SW8270D	SW 3510C	Analysis Date: 11/17/2015				SeqNo: 303873
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val
Bis(2-ethylhexyl)phthalate	49.3	1.00	50.00	0	98.7	50	150	
Butyl benzyl phthalate	47.0	1.00	50.00	0	94.0	50	150	
Diethyl phthalate	49.8	1.00	50.00	0	99.5	50	150	
Dimethyl phthalate	49.2	1.00	50.00	0	98.4	50	150	
Di-n-butyl phthalate	30.0	1.00	50.00	0	60.0	50	150	
Di-n-octyl phthalate	41.7	1.00	50.00	0	83.4	50	150	

Sample ID: LCSD-10323	SampType: LCSD	TestCode: 8270BN_W	Units: µg/L	Prep Date: 11/16/2015				RunNo: 22670
Client ID: LCSS02	Batch ID: 10323	TestNo: SW8270D	SW 3510C	Analysis Date: 11/17/2015				SeqNo: 303874
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val
Bis(2-ethylhexyl)phthalate	52.4	1.00	50.00	0	105	50	150	49.34
								6.07
								20

Qualifiers:	B	Analyte detected in the associated Method Blank	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit	Page 13 of 30
	O	RSD is greater than RSDlimit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted reco	

QC SUMMARY REPORT

WO#: 1511144
24-Nov-15

Specialty Analytical

Client: SLR International Corp.

Project: Lampros / 108.00895.00003

TestCode: 8270BN_W

Sample ID: LCSD-10323	SampType: LCSD	TestCode: 8270BN_W	Units: µg/L	Prep Date: 11/16/2015	RunNo: 22670
Client ID: LCSS02	Batch ID: 10323	TestNo: SW8270D	SW 3510C	Analysis Date: 11/17/2015	SeqNo: 303874
<hr/>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Butyl benzyl phthalate	47.0	1.00	50.00	0	94.0
Diethyl phthalate	48.4	1.00	50.00	0	96.8
Dimethyl phthalate	49.5	1.00	50.00	0	99.0
Di-n-butyl phthalate	35.8	1.00	50.00	0	71.6
Di-n-octyl phthalate	46.6	1.00	50.00	0	93.2
				LowLimit	HighLimit
				50	150
				47.00	0.0213
				2.77	20
				49.76	
				49.20	0.567
				29.98	17.6
				41.69	11.1
					20

Sample ID: MB-10323	SampType: MBLK	TestCode: 8270BN_W	Units: µg/L	Prep Date: 11/16/2015	RunNo: 22670
Client ID: PBW	Batch ID: 10323	TestNo: SW8270D	SW 3510C	Analysis Date: 11/18/2015	SeqNo: 303875
<hr/>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Bis(2-ethylhexyl)phthalate	ND	1.00			
Butyl benzyl phthalate	ND	1.00			
Diethyl phthalate	ND	1.00			
Dimethyl phthalate	ND	1.00			
Di-n-butyl phthalate	ND	1.00			
Di-n-octyl phthalate	ND	1.00			
Surr: 2-Fluorobiphenyl	69.5		100.0	69.5	33.1
Surr: 4-Terphenyl-d14	96.4		100.0	96.4	41
Surr: Nitrobenzene-d5	76.3		100.0	76.3	28.9
				96.2	
				122	
				99.9	

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSdlimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted reco

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QC SUMMARY REPORT

WO#: 1511144
24-Nov-15

Specialty Analytical

Client: SLR International Corp.

Project: Lampros / 108.00895.00003

TestCode: Hg_WW

Sample ID:	MB-10335	SampType:	MBLK	TestCode:	Hg_WW	Units:	mg/L	Prep Date:	11/18/2015	RunNo:	22664	
Client ID:	PBW	Batch ID:	10335	TestNo:	E245.2		E245.1	Analysis Date:	11/18/2015	SeqNo:	303794	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		ND	0.000100									

Sample ID:	LCS-10335	SampType:	LCS	TestCode:	Hg_WW	Units:	mg/L	Prep Date:	11/18/2015	RunNo:	22664	
Client ID:	LCSW	Batch ID:	10335	TestNo:	E245.2		E245.1	Analysis Date:	11/18/2015	SeqNo:	303795	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		0.00384	0.000100	0.004000	0	96.0	80	120				

Sample ID:	CCV	SampType:	CCV	TestCode:	HG_WW	Units:	mg/L	Prep Date:		RunNo:	22664	
Client ID:	CCV	Batch ID:	10335	TestNo:	E245.2		E245.1	Analysis Date:	11/18/2015	SeqNo:	303808	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		0.00387	0.000100	0.004000	0	96.8	90	110				

Sample ID:	CCV	SampType:	CCV	TestCode:	HG_WW	Units:	mg/L	Prep Date:		RunNo:	22664	
Client ID:	CCV	Batch ID:	10335	TestNo:	E245.2		E245.1	Analysis Date:	11/18/2015	SeqNo:	303809	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		0.00367	0.000100	0.004000	0	91.8	90	110				

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSdlimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted reco

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QC SUMMARY REPORT

WO#: 1511144
24-Nov-15

Specialty Analytical

Client: SLR International Corp.

Project: Lampros / 108.00895.00003

TestCode: Hg_WW

Sample ID: 1511147-001BDUP	SampType: DUP	TestCode: HG_WW	Units: mg/L	Prep Date: 11/18/2015	RunNo: 22664
Client ID: ZZZZZZ	Batch ID: 10335	TestNo: E245.2	E245.1	Analysis Date: 11/18/2015	SeqNo: 304022
Analyte					
Mercury	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Sample ID: 1511147-001BMS	SampType: MS	TestCode: HG_WW	Units: mg/L	Prep Date: 11/18/2015	RunNo: 22664
Client ID: ZZZZZZ	Batch ID: 10335	TestNo: E245.2	E245.1	Analysis Date: 11/18/2015	SeqNo: 304023
Analyte					
Mercury	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Sample ID: 1511147-001BMSD	SampType: MSD	TestCode: HG_WW	Units: mg/L	Prep Date: 11/18/2015	RunNo: 22664
Client ID: ZZZZZZ	Batch ID: 10335	TestNo: E245.2	E245.1	Analysis Date: 11/18/2015	SeqNo: 304024
Analyte					
Mercury	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

QC SUMMARY REPORT

WO#: 1511144
24-Nov-15

Specialty Analytical

Client: SLR International Corp.

Project: Lampros / 108.00895.00003

TestCode: NWTPHDXL_W

Sample ID: CCV	SampType: CCV	TestCode: NWTPHDXL _L Units: mg/L			Prep Date:			RunNo: 22684			
Client ID: CCV	Batch ID: 10340	TestNo: NWTPH-Dx SW3510B			Analysis Date: 11/19/2015			SeqNo: 304015			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	8.33	0.0800	8.000	0	104	85	115				
Lube Oil	3.87	0.200	4.000	0	96.8	85	115				

Sample ID: MB-10340	SampType: MBLK	TestCode: NWTPHDXL _L Units: mg/L			Prep Date: 11/18/2015			RunNo: 22684			
Client ID: PBW	Batch ID: 10340	TestNo: NWTPH-Dx SW3510B			Analysis Date: 11/19/2015			SeqNo: 304016			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	ND	0.0800									
Lube Oil	ND	0.200									
Surr: o-Terphenyl	0.209		0.2000		105	50	150				

Sample ID: LCS-10340	SampType: LCS	TestCode: NWTPHDXL _L Units: mg/L			Prep Date: 11/18/2015			RunNo: 22684			
Client ID: LCSW	Batch ID: 10340	TestNo: NWTPH-Dx SW3510B			Analysis Date: 11/19/2015			SeqNo: 304017			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	0.992	0.0800	1.000	0	99.2	60.7	121				
Lube Oil	0.720	0.200	1.000	0	72.0	64	126				

Sample ID: LCSD-10340	SampType: LCSD	TestCode: NWTPHDXL _L Units: mg/L			Prep Date: 11/18/2015			RunNo: 22684			
Client ID: LCSS02	Batch ID: 10340	TestNo: NWTPH-Dx SW3510B			Analysis Date: 11/19/2015			SeqNo: 304018			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSDLimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted reco

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QC SUMMARY REPORT

WO#: 1511144
24-Nov-15

Specialty Analytical

Client: SLR International Corp.

Project: Lampros / 108.00895.00003

TestCode: NWTPHDXL_W

Sample ID: LCSD-10340	SampType: LCSD	TestCode: NWTPHDXL	Units: mg/L	Prep Date: 11/18/2015	RunNo: 22684
Client ID: LCSS02	Batch ID: 10340	TestNo: NWTPH-Dx	SW3510B	Analysis Date: 11/19/2015	SeqNo: 304018
Analyte					
Diesel	Result	PQL	SPK value	SPK Ref Val	%REC
1.03	0.0800	1.000	0	103	60.7
Lube Oil		0.200	1.000	0	79.7
				121	0.9924
				64	126
				0.7197	3.41
					20
					10.2
					20

Sample ID: CCV	SampType: CCV	TestCode: NWTPHDXL	Units: mg/L	Prep Date:	RunNo: 22684
Client ID: CCV	Batch ID: 10340	TestNo: NWTPH-Dx	SW3510B	Analysis Date: 11/20/2015	SeqNo: 304737
Analyte					
Diesel	Result	PQL	SPK value	SPK Ref Val	%REC
8.08	0.0800	8.000	0	101	85
Lube Oil		0.200	4.000	0	105
				85	115

Sample ID: CCB	SampType: CCB	TestCode: NWTPHDXL	Units: mg/L	Prep Date:	RunNo: 22684
Client ID: CCB	Batch ID: 10340	TestNo: NWTPH-Dx	SW3510B	Analysis Date: 11/20/2015	SeqNo: 304738
Analyte					
Diesel	Result	PQL	SPK value	SPK Ref Val	%REC
ND	0.0800				
Lube Oil		ND	0.200		
Surr: o-Terphenyl		0.231	0.2000		115
				50	150

Sample ID: CCV	SampType: CCV	TestCode: NWTPHDXL	Units: mg/L	Prep Date:	RunNo: 22684
Client ID: CCV	Batch ID: 10340	TestNo: NWTPH-Dx	SW3510B	Analysis Date: 11/23/2015	SeqNo: 304925
Analyte					
Diesel	Result	PQL	SPK value	SPK Ref Val	%REC
ND	0.0800				
Lube Oil		ND	0.200		
Surr: o-Terphenyl		0.231	0.2000		115
				50	150

Qualifiers:	B	Analyte detected in the associated Method Blank	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted reco	

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QC SUMMARY REPORT

WO#: 1511144
24-Nov-15

Specialty Analytical

Client: SLR International Corp.
Project: Lampros / 108.00895.00003

TestCode: NWTPHDXL_W

Sample ID: CCV	SampType: CCV	TestCode: NWTPHDXL	Units: mg/L	Prep Date:	RunNo: 22684
Client ID: CCV	Batch ID: 10340	TestNo: NWTPH-Dx	SW3510B	Analysis Date: 11/23/2015	SeqNo: 304925
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Hydraulic Oil	2.29	0.200	2.000	0	115
				85	115
					%RPD RPDLimit Qual

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSDlimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted reco

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QC SUMMARY REPORT

WO#: 1511144
24-Nov-15

Specialty Analytical

Client: SLR International Corp.
Project: Lampros / 108.00895.00003

TestCode: NWTPHGX_W

Sample ID: CCV	SampType: CCV	TestCode: NWTPHGX_	Units: µg/L	Prep Date:	RunNo: 22653
Client ID: CCV	Batch ID: R22653	TestNo: NWTPH-Gx		Analysis Date: 11/17/2015	SeqNo: 303722
Analyte					
Gasoline	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Sample ID: MB-R22653	SampType: MBLK	TestCode: NWTPHGX_	Units: µg/L	Prep Date:	RunNo: 22653
Client ID: PBW	Batch ID: R22653	TestNo: NWTPH-Gx		Analysis Date: 11/17/2015	SeqNo: 303723
Analyte					
Gasoline	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Sample ID: 1511144-002FDUP	SampType: DUP	TestCode: NWTPHGX_	Units: µg/L	Prep Date:	RunNo: 22653
Client ID: CB-33-Post	Batch ID: R22653	TestNo: NWTPH-Gx		Analysis Date: 11/17/2015	SeqNo: 303725
Analyte					
Gasoline	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Sample ID: CCV	SampType: CCV	TestCode: NWTPHGX_	Units: µg/L	Prep Date:	RunNo: 22653
Client ID: CCV	Batch ID: R22653	TestNo: NWTPH-Gx		Analysis Date: 11/17/2015	SeqNo: 303729
Analyte					
Gasoline	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Qualifiers:	B	Analyte detected in the associated Method Blank	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit	Page 20 of 30
	O	RSD is greater than RSDLimit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted reco	

QC SUMMARY REPORT

WO#: 1511144
24-Nov-15

Specialty Analytical

Client: SLR International Corp.
Project: Lampros / 108.00895.00003

TestCode: PAHLL_W

Sample ID: LCS-10338	SampType: LCS	TestCode: PAHLL_W		Units: µg/L	Prep Date: 11/18/2015			RunNo: 22685			
Client ID: LCSW	Batch ID: 10338	TestNo: SW8270D	SW 3510C		Analysis Date: 11/18/2015			SeqNo: 304026			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	4.04	0.0500	5.000	0	80.8	35.1	100				
Acenaphthylene	4.07	0.0500	5.000	0	81.4	29	89.1				
Anthracene	4.26	0.0500	5.000	0	85.2	42	97.4				
Benz(a)anthracene	4.36	0.0500	5.000	0	87.2	34.2	95.8				
Benzo(a)pyrene	4.37	0.0500	5.000	0	87.4	23.4	103				
Benzo(b)fluoranthene	4.30	0.0500	5.000	0	86.0	36.6	99.5				
Benzo(g,h,i)perylene	4.46	0.0500	5.000	0	89.2	20.8	120				
Benzo(k)fluoranthene	4.49	0.0500	5.000	0	89.8	39.7	93.4				
Chrysene	4.37	0.0500	5.000	0	87.4	39.1	119				
Dibenz(a,h)anthracene	4.42	0.0500	5.000	0	88.4	5.05	89				
Fluoranthene	4.20	0.0500	5.000	0	84.0	42.4	95.9				
Fluorene	4.07	0.0500	5.000	0	81.4	37.4	88.4				
Indeno(1,2,3-cd)pyrene	4.74	0.0500	5.000	0	94.8	10.5	98.4				
Naphthalene	3.71	0.0500	5.000	0	74.2	25.6	106				
Phenanthrene	4.47	0.0500	5.000	0	89.4	38.1	106				
Pyrene	4.77	0.0500	5.000	0	95.4	41.3	118				
Surr: 2-Fluorobiphenyl	92.4		100.0		92.4	18.6	106				

Sample ID: LCSD-10338	SampType: LCSD	TestCode: PAHLL_W		Units: µg/L	Prep Date: 11/18/2015			RunNo: 22685			
Client ID: LCSS02	Batch ID: 10338	TestNo: SW8270D	SW 3510C		Analysis Date: 11/18/2015			SeqNo: 304027			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	4.15	0.0500	5.000	0	83.0	35.1	100	4.040	2.69	20	
Acenaphthylene	4.13	0.0500	5.000	0	82.6	29	89.1	4.070	1.46	20	

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSDLimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted reco

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QC SUMMARY REPORT

WO#: 1511144
24-Nov-15

Specialty Analytical

Client: SLR International Corp.

Project: Lampros / 108.00895.00003

TestCode: PAHLL_W

Sample ID: LCSD-10338	SampType: LCSD	TestCode: PAHLL_W	Units: µg/L	Prep Date: 11/18/2015	RunNo: 22685
Client ID: LCSS02	Batch ID: 10338	TestNo: SW8270D	SW 3510C	Analysis Date: 11/18/2015	SeqNo: 304027
Analyte					
Anthracene	Result	PQL	SPK value	SPK Ref Val	%REC
4.29	0.0500	5.000	0	85.8	42
Benz(a)anthracene		0.0500	5.000	0	87.8
4.39			0	34.2	95.8
Benzo(a)pyrene		0.0500	5.000	0	89.4
4.47			0	23.4	103
Benzo(b)fluoranthene		0.0500	5.000	0	88.2
4.41			0	36.6	99.5
Benzo(g,h,i)perylene		0.0500	5.000	0	90.4
4.52			0	20.8	120
Benzo(k)fluoranthene		0.0500	5.000	0	92.8
4.64			0	39.7	93.4
Chrysene		0.0500	5.000	0	88.6
4.43			0	39.1	119
Dibenz(a,h)anthracene		0.0500	5.000	0	88.8
4.44			0	5.05	89
Fluoranthene		0.0500	5.000	0	84.4
4.22			0	42.4	95.9
Fluorene		0.0500	5.000	0	84.8
4.24			0	37.4	88.4
Indeno(1,2,3-cd)pyrene		0.0500	5.000	0	96.2
4.81			0	10.5	98.4
Naphthalene		0.0500	5.000	0	77.4
3.87			0	25.6	106
Phenanthrene		0.0500	5.000	0	90.2
4.51			0	38.1	106
Pyrene		0.0500	5.000	0	96.2
4.81			0	41.3	118
Surr: 2-Fluorobiphenyl			100.0	86.7	18.6
				106	0
					20

Sample ID: MB-10338	SampType: MBLK	TestCode: PAHLL_W	Units: µg/L	Prep Date: 11/18/2015	RunNo: 22685
Client ID: PBW	Batch ID: 10338	TestNo: SW8270D	SW 3510C	Analysis Date: 11/18/2015	SeqNo: 304028
Analyte					
Acenaphthene	Result	PQL	SPK value	SPK Ref Val	%REC
ND	0.0500				
Acenaphthylene		0.0500			
ND					
Anthracene		0.0500			
ND					
Benz(a)anthracene		0.0500			
ND					

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSDDlimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted reco

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QC SUMMARY REPORT

WO#: 1511144
24-Nov-15

Specialty Analytical

Client: SLR International Corp.

Project: Lampros / 108.00895.00003

TestCode: PAHLL_W

Sample ID: MB-10338	SampType: MBLK	TestCode: PAHLL_W	Units: µg/L	Prep Date: 11/18/2015	RunNo: 22685
Client ID: PBW	Batch ID: 10338	TestNo: SW8270D	SW 3510C	Analysis Date: 11/18/2015	SeqNo: 304028
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Benzo(a)pyrene	ND	0.0500			
Benzo(b)fluoranthene	ND	0.0500			
Benzo(g,h,i)perylene	ND	0.0500			
Benzo(k)fluoranthene	ND	0.0500			
Chrysene	ND	0.0500			
Dibenz(a,h)anthracene	ND	0.0500			
Fluoranthene	ND	0.0500			
Fluorene	ND	0.0500			
Indeno(1,2,3-cd)pyrene	ND	0.0500			
Naphthalene	ND	0.0500			
Phenanthrene	ND	0.0500			
Pyrene	ND	0.0500			
Surr: 2-Fluorobiphenyl	87.7	100.0		87.7	18.6
Surr: Nitrobenzene-d5	82.6	100.0		82.6	17
Surr: Terphenyl-d14	104	100.0		104	39.6
					106
					130
					131

Sample ID: CCV MSSWS-1375	SampType: CCV	TestCode: PAHLL_W	Units: µg/L	Prep Date:	RunNo: 22757
Client ID: CCV	Batch ID: 10338	TestNo: SW8270D	SW 3510C	Analysis Date: 11/23/2015	SeqNo: 305120
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Acenaphthene	2.15	0.0500	2.000	0	108
Acenaphthylene	2.15	0.0500	2.000	0	108
Anthracene	2.09	0.0500	2.000	0	104
Benz(a)anthracene	2.08	0.0500	2.000	0	104
					80
					120
					80
					120
					80
					120

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSDlimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted reco

Page 23 of 30

QC SUMMARY REPORT

WO#: 1511144
24-Nov-15

Specialty Analytical

Client: SLR International Corp.
Project: Lampros / 108.00895.00003

TestCode: PAHLL_W

Sample ID: CCV MSSWS-1375	SampType: CCV	TestCode: PAHLL_W	Units: µg/L	Prep Date:			RunNo: 22757				
Client ID: CCV	Batch ID: 10338	TestNo: SW8270D	SW 3510C	Analysis Date: 11/23/2015			SeqNo: 305120				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(a)pyrene	2.05	0.0500	2.000	0	103	80	120				
Benzo(b)fluoranthene	1.95	0.0500	2.000	0	97.5	80	120				
Benzo(g,h,i)perylene	2.34	0.0500	2.000	0	117	80	120				
Benzo(k)fluoranthene	2.09	0.0500	2.000	0	104	80	120				
Chrysene	2.20	0.0500	2.000	0	110	80	120				
Dibenz(a,h)anthracene	2.21	0.0500	2.000	0	110	80	120				
Fluoranthene	1.83	0.0500	2.000	0	91.5	80	120				
Fluorene	2.17	0.0500	2.000	0	108	80	120				
Indeno(1,2,3-cd)pyrene	2.08	0.0500	2.000	0	104	80	120				
Naphthalene	2.14	0.0500	2.000	0	107	80	120				
Phenanthrene	2.15	0.0500	2.000	0	108	80	120				
Pyrene	2.22	0.0500	2.000	0	111	80	120				

Sample ID: LCS-10338	SampType: LCS	TestCode: PAHLL_W	Units: µg/L	Prep Date: 11/18/2015			RunNo: 22757				
Client ID: LCSW	Batch ID: 10338	TestNo: SW8270D	SW 3510C	Analysis Date: 11/23/2015			SeqNo: 305121				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	3.88	0.0500	5.000	0	77.6	35.1	100				
Acenaphthylene	3.89	0.0500	5.000	0	77.8	29	89.1				
Anthracene	4.16	0.0500	5.000	0	83.2	42	97.4				
Benz(a)anthracene	4.30	0.0500	5.000	0	86.0	34.2	95.8				
Benzo(a)pyrene	4.33	0.0500	5.000	0	86.6	23.4	103				
Benzo(b)fluoranthene	4.18	0.0500	5.000	0	83.6	36.6	99.5				
Benzo(g,h,i)perylene	5.11	0.0500	5.000	0	102	20.8	120				

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSDLimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted reco

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QC SUMMARY REPORT

WO#: 1511144
24-Nov-15

Specialty Analytical

Client: SLR International Corp.
Project: Lampros / 108.00895.00003

TestCode: PAHLL_W

Sample ID: LCS-10338	SampType: LCS	TestCode: PAHLL_W		Units: µg/L	Prep Date: 11/18/2015		RunNo: 22757				
Client ID: LCSW	Batch ID: 10338	TestNo: SW8270D	SW 3510C		Analysis Date: 11/23/2015		SeqNo: 305121				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(k)fluoranthene	4.13	0.0500	5.000	0	82.6	39.7	93.4				
Chrysene	4.35	0.0500	5.000	0	87.0	39.1	119				
Dibenz(a,h)anthracene	4.94	0.0500	5.000	0	98.8	5.05	89				SO
Fluoranthene	4.19	0.0500	5.000	0	83.8	42.4	95.9				
Fluorene	3.99	0.0500	5.000	0	79.8	37.4	88.4				
Indeno(1,2,3-cd)pyrene	5.27	0.0500	5.000	0	105	10.5	98.4				SO
Naphthalene	3.70	0.0500	5.000	0	74.0	25.6	106				
Phenanthrene	4.40	0.0500	5.000	0	88.0	38.1	106				
Pyrene	4.57	0.0500	5.000	0	91.4	41.3	118				

Sample ID: LCSD-10338	SampType: LCSD	TestCode: PAHLL_W		Units: µg/L	Prep Date: 11/18/2015		RunNo: 22757				
Client ID: LCSS02	Batch ID: 10338	TestNo: SW8270D	SW 3510C		Analysis Date: 11/23/2015		SeqNo: 305122				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	4.09	0.0500	5.000	0	81.8	35.1	100	4.040	1.23	20	
Acenaphthylene	4.04	0.0500	5.000	0	80.8	29	89.1	4.070	0.740	20	
Anthracene	4.32	0.0500	5.000	0	86.4	42	97.4	4.260	1.40	20	
Benz(a)anthracene	4.39	0.0500	5.000	0	87.8	34.2	95.8	4.360	0.686	20	
Benzo(a)pyrene	4.46	0.0500	5.000	0	89.2	23.4	103	4.370	2.04	20	
Benzo(b)fluoranthene	4.30	0.0500	5.000	0	86.0	36.6	99.5	4.300	0	20	
Benzo(g,h,i)perylene	5.25	0.0500	5.000	0	105	20.8	120	4.460	16.3	20	
Benzo(k)fluoranthene	4.39	0.0500	5.000	0	87.8	39.7	93.4	4.490	2.25	20	
Chrysene	4.45	0.0500	5.000	0	89.0	39.1	119	4.370	1.81	20	
Dibenz(a,h)anthracene	5.16	0.0500	5.000	0	103	5.05	89	4.420	15.4	20	SO

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSDLimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted reco

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QC SUMMARY REPORT

WO#: 1511144
24-Nov-15

Specialty Analytical

Client: SLR International Corp.

Project: Lampros / 108.00895.00003

TestCode: PAHLL_W

Sample ID: LCSD-10338	SampType: LCSD	TestCode: PAHLL_W	Units: µg/L	Prep Date: 11/18/2015	RunNo: 22757
Client ID: LCSS02	Batch ID: 10338	TestNo: SW8270D	SW 3510C	Analysis Date: 11/23/2015	SeqNo: 305122
Analyte					
Fluoranthene	Result	PQL	SPK value	SPK Ref Val	%REC
Fluorene	4.30	0.0500	5.000	0	86.0
Indeno(1,2,3-cd)pyrene	4.14	0.0500	5.000	0	82.8
Naphthalene	5.44	0.0500	5.000	0	109
Phenanthrene	3.93	0.0500	5.000	0	78.6
Pyrene	4.49	0.0500	5.000	0	89.8
	4.64	0.0500	5.000	0	92.8
				42.4	95.9
				37.4	88.4
				10.5	98.4
				25.6	106
				38.1	106
				41.3	118
					4.200
					4.070
					4.740
					3.710
					4.470
					0.446
					2.76
					20
					SO
					20
					20
					20
					20

Sample ID: MB-10338	SampType: MBLK	TestCode: PAHLL_W	Units: µg/L	Prep Date: 11/18/2015	RunNo: 22757
Client ID: PBW	Batch ID: 10338	TestNo: SW8270D	SW 3510C	Analysis Date: 11/23/2015	SeqNo: 305123
Analyte					
Acenaphthene	Result	PQL	SPK value	SPK Ref Val	%REC
Acenaphthylene	ND	0.0500			
Anthracene	ND	0.0500			
Benz(a)anthracene	ND	0.0500			
Benzo(a)pyrene	ND	0.0500			
Benzo(b)fluoranthene	ND	0.0500			
Benzo(g,h,i)perylene	ND	0.0500			
Benzo(k)fluoranthene	ND	0.0500			
Chrysene	ND	0.0500			
Dibenz(a,h)anthracene	ND	0.0500			
Fluoranthene	ND	0.0500			
Fluorene	ND	0.0500			
Indeno(1,2,3-cd)pyrene	ND	0.0500			

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSdlimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted reco

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QC SUMMARY REPORT

WO#: 1511144
24-Nov-15

Specialty Analytical

Client: SLR International Corp.
Project: Lampros / 108.00895.00003

TestCode: PAHLL_W

Sample ID: MB-10338	SampType: MBLK	TestCode: PAHLL_W	Units: µg/L	Prep Date: 11/18/2015	RunNo: 22757
Client ID: PBW	Batch ID: 10338	TestNo: SW8270D	SW 3510C	Analysis Date: 11/23/2015	SeqNo: 305123
<hr/>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Naphthalene	ND	0.0500			
Phenanthrene	ND	0.0500			
Pyrene	ND	0.0500			
Surr: 2-Fluorobiphenyl	84.2		100.0	84.2	18.6
Surr: Nitrobenzene-d5	77.6		100.0	77.6	17
Surr: Terphenyl-d14	97.8		100.0	97.8	130
					131

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSdlimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted reco

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QC SUMMARY REPORT

WO#: 1511144
24-Nov-15

Specialty Analytical

Client: SLR International Corp.

Project: Lampros / 108.00895.00003

TestCode: TOC_W

Sample ID: LCS-R22702	SampType: LCS	TestCode: TOC_W	Units: mg/L	Prep Date:	RunNo: 22702
Client ID: LCSW	Batch ID: R22702	TestNo: M5310 B		Analysis Date: 11/18/2015	SeqNo: 304350
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Organic Carbon, Total	9.54	1.00	10.00	0	95.4
				84.1	109

Sample ID: MB-R22702	SampType: MBLK	TestCode: TOC_W	Units: mg/L	Prep Date:	RunNo: 22702
Client ID: PBW	Batch ID: R22702	TestNo: M5310 B		Analysis Date: 11/18/2015	SeqNo: 304351
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Organic Carbon, Total	ND	1.00			

Sample ID: 1511144-007CMS	SampType: MS	TestCode: TOC_W	Units: mg/L	Prep Date:	RunNo: 22702
Client ID: CB-3-Post	Batch ID: R22702	TestNo: M5310 B		Analysis Date: 11/18/2015	SeqNo: 304356
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Organic Carbon, Total	9.17	1.00	5.000	4.441	94.6
				74.7	121

Sample ID: 1511144-007CMSD	SampType: MSD	TestCode: TOC_W	Units: mg/L	Prep Date:	RunNo: 22702
Client ID: CB-3-Post	Batch ID: R22702	TestNo: M5310 B		Analysis Date: 11/18/2015	SeqNo: 304357
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Organic Carbon, Total	9.28	1.00	5.000	4.441	96.8
				74.7	121
				9.173	1.19
					20

Qualifiers:	B	Analyte detected in the associated Method Blank	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit	Page 28 of 30
	O	RSD is greater than RSDlimit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted reco	

QC SUMMARY REPORT

WO#: 1511144
24-Nov-15

Specialty Analytical

Client: SLR International Corp.
Project: Lampros / 108.00895.00003

TestCode: TOC_W

Sample ID: R22702CCV	SampType: CCV	TestCode: TOC_W	Units: mg/L	Prep Date:	RunNo: 22702
Client ID: CCV	Batch ID: R22702	TestNo: M5310 B		Analysis Date: 11/18/2015	SeqNo: 304358
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Organic Carbon, Total	10.2	1.00	10.00	0	102
				90	110
				%RPD	RPDLimit
					Qual

Qualifiers: B Analyte detected in the associated Method Blank
O RSD is greater than RSDLimit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted reco

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QC SUMMARY REPORT

WO#: 1511144
24-Nov-15

Specialty Analytical

Client: SLR International Corp.

Project: Lampros / 108.00895.00003

TestCode: TSS_WW

Sample ID: MB-R22635	SampType: MBLK	TestCode: TSS_WW	Units: mg/L	Prep Date:	RunNo: 22635
Client ID: PBW	Batch ID: R22635	TestNo: M2540 D		Analysis Date: 11/17/2015	SeqNo: 303599
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Total Suspended Solids	ND	5.00			

Sample ID: LCS-R22635	SampType: LCS	TestCode: TSS_WW	Units: mg/L	Prep Date:	RunNo: 22635
Client ID: LCSW	Batch ID: R22635	TestNo: M2540 D		Analysis Date: 11/17/2015	SeqNo: 303600
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Total Suspended Solids	85.0	5.00	100.0	0	85.0 80 105

Sample ID: 1511147-002ADUP	SampType: DUP	TestCode: TSS_WW	Units: mg/L	Prep Date:	RunNo: 22635
Client ID: ZZZZZZ	Batch ID: R22635	TestNo: M2540 D		Analysis Date: 11/17/2015	SeqNo: 303669
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Total Suspended Solids	18.0	5.00			18.00 0 20

Sample ID: 1511144-007DDUP	SampType: DUP	TestCode: TSS_WW	Units: mg/L	Prep Date:	RunNo: 22635
Client ID: CB-3-Post	Batch ID: R22635	TestNo: M2540 D		Analysis Date: 11/17/2015	SeqNo: 303670
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Total Suspended Solids	98.0	5.00			94.00 4.17 20

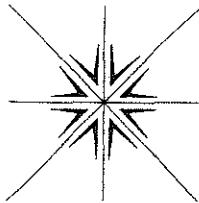
KEY TO FLAGS

Rev. May 12, 2010

- A This sample contains a Gasoline Range Organic not identified as a specific hydrocarbon product. The result was quantified against gasoline calibration standards
- A1 This sample contains a Diesel Range Organic not identified as a specific hydrocarbon product. The result was quantified against diesel calibration standards.
- A2 This sample contains a Lube Oil Range Organic not identified as a specific hydrocarbon product. The result was quantified against a lube oil calibration standard.
- A3 The result was determined to be Non-Detect based on hydrocarbon pattern recognition. The product was carry-over from another hydrocarbon type.
- A4 The product appears to be aged or degraded diesel.
- B The blank exhibited a positive result greater than the reporting limit for this compound.
- CN See Case Narrative.
- D Result is based from a dilution.
- E Result exceeds the calibration range for this compound. The result should be considered as estimate.
- F The positive result for this hydrocarbon is due to single component contamination. The product does not match any hydrocarbon in the fuels library.
- G Result may be biased high due to biogenic interferences. Clean up is recommended.
- H Sample was analyzed outside recommended holding time.
- HT At clients request, samples was analyzed outside of recommended holding time.
- J The result for this analyte is between the MDL and the PQL and should be considered as estimated concentration.
- K Diesel result is biased high due to amount of Oil contained in the sample.
- L Diesel result is biased high due to amount of Gasoline contained in the sample.
- M Oil result is biased high due to amount of Diesel contained in the sample.
- MC Sample concentration is greater than 4x the spiked value, the spiked value is considered insignificant.
- MI Result is outside control limits due to matrix interference.
- MSA Value determined by Method of Standard Addition.
- O Laboratory Control Standard (LCS) exceeded laboratory control limits, but meets CCV criteria. Data meets EPA requirements.
- Q Detection levels elevated due to sample matrix.
- R RPD control limits were exceeded.
- RF Duplicate failed due to result being at or near the method-reporting limit.
- RP Matrix spike values exceed established QC limits; post digestion spike is in control.
- S Recovery is outside control limits.
- SC Closing CCV or LCS exceeded high recovery control limits, but associated samples are non-detect. Data meets EPA requirements.
- * The result for this parameter was greater than the maximum contaminant level of the TCLP regulatory limit.

CHAIN OF CUSTODY RECORD

Page 1 of 1



Specialty Analytical

11711 SE Capps Road
Clackamas, OR 97015
Phone: 503-607-1331
Fax: 503-607-1336

Collected By:

Signature _____

Printed _____

Signature _____

Printed _____

Turn Around Time

Normal 5-7 Business Days

Rush _____

Specify _____

Rush Analyses Must Be Scheduled With The Lab In Advance

Date	Time	Sample I.D.	Matrix	No. of Containers
11/16/15	1515	CB-33 - Pre	SW	2
	1525	CB-33 - Post		10
	1600	CB-25		10
	1610	CB-11 - Pre		2
	1625	CB-11 - Post		10
	1630	CB-3 - Pre		2
	1645	CB-3 - Post		10

No. of Containers	Analyses							For Laboratory Use	
	PAHs	PCBs	New TPH-Gx	MnSph-Dx	TSS	TOC	Phthalates	Lab Job No.	Shipped Via
2	X	X	X	X	X	X		151144	CHEM
10	X	X	X	X	X	X			

Relinquished By: Chris Kramer
Company: SLR

Date 11/17/15
Time 7:15

Received By:
Company:

Relinquished By:
Company:

Date _____
Time _____

Unless Reclaimed, Samples Will Be Disposed of 60 Days After Receipt.
Samples held beyond 60 days subject to storage fee(s)

Received For Lab By: Chris Kramer

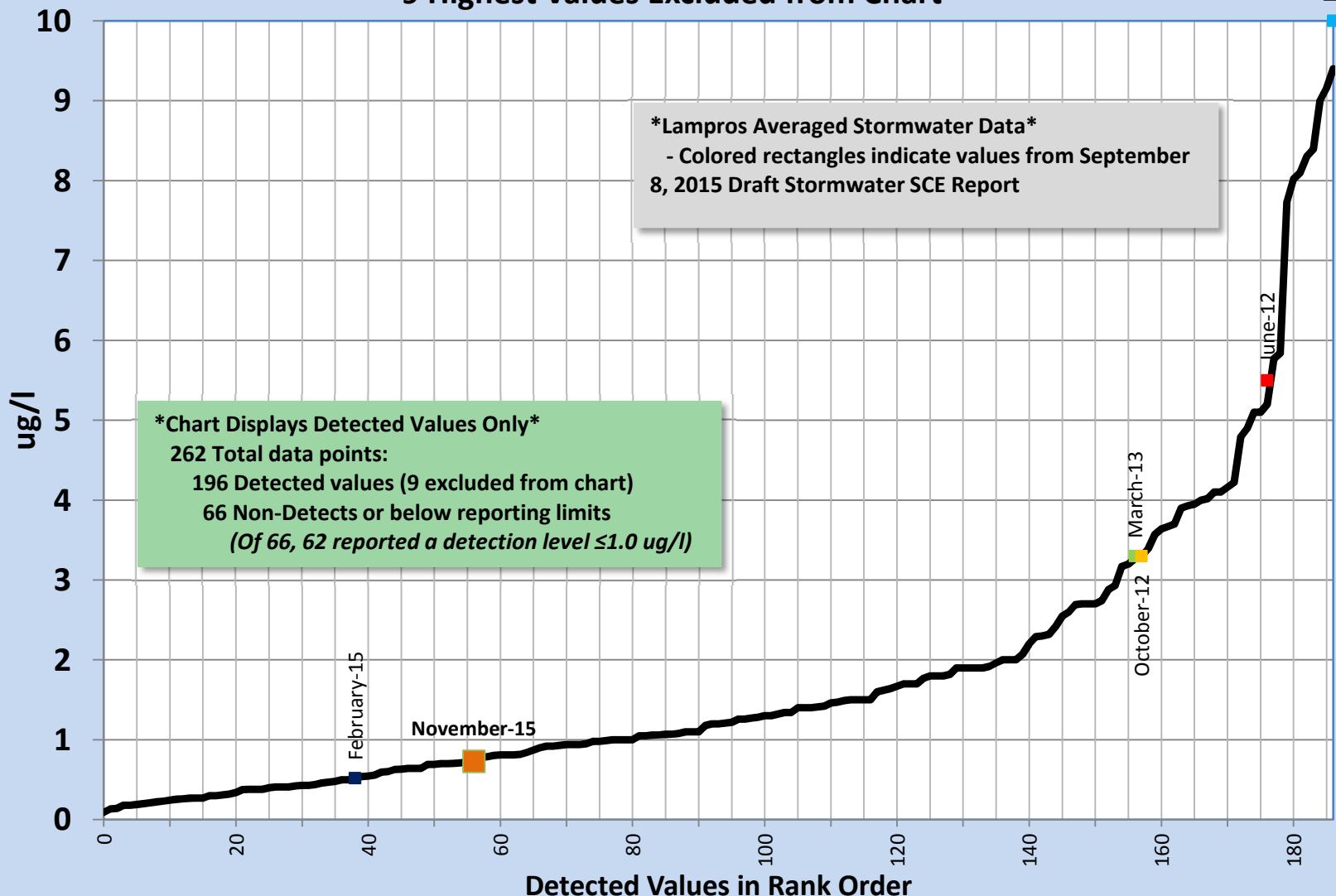
Date 11/17/15
Time 0715

APPENDIX C

Revised Rank Order Curves

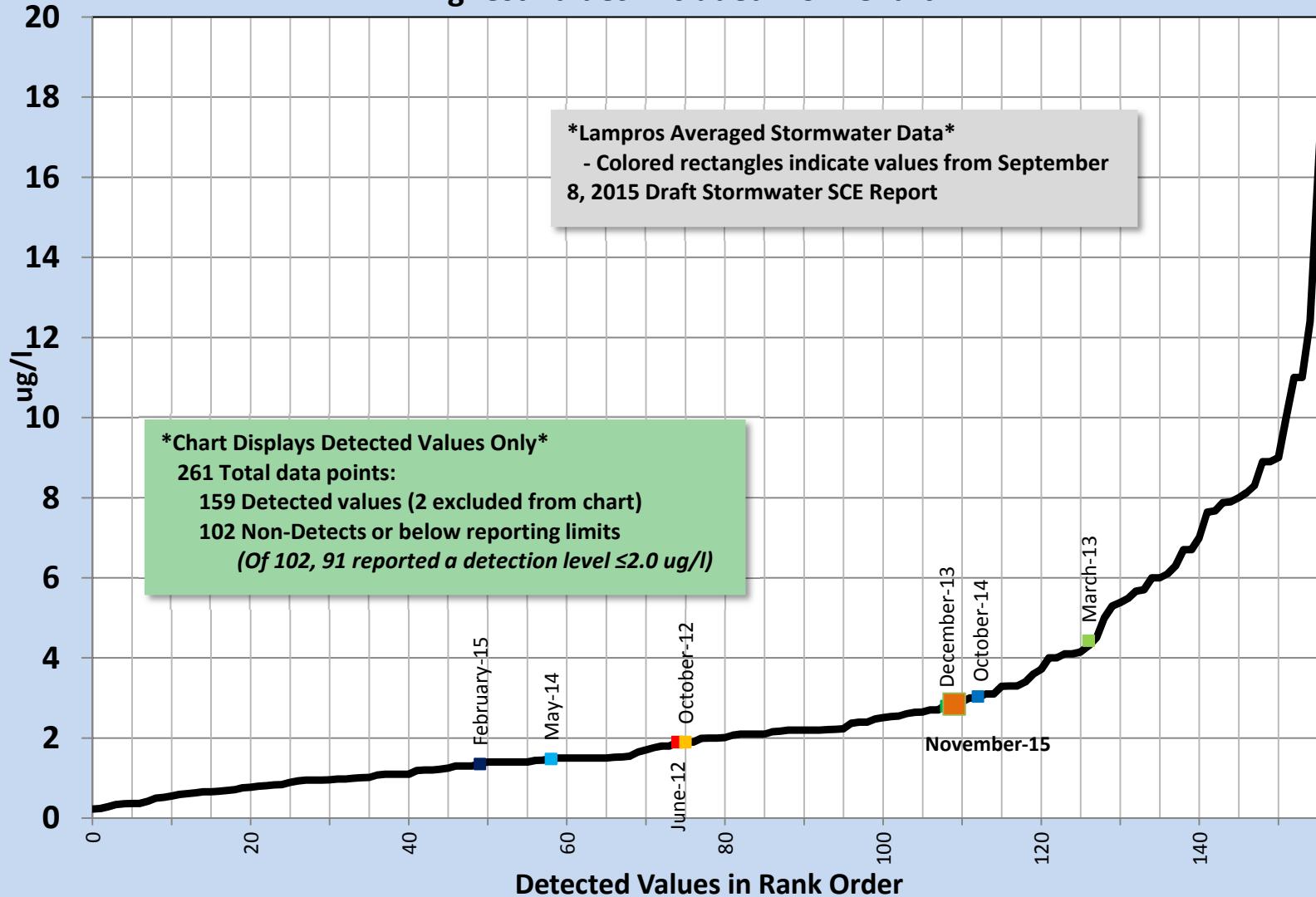
Arsenic (ug/l) in Stormwater at Portland Harbor Heavy Industrial Sites

9 Highest Values Excluded from Chart



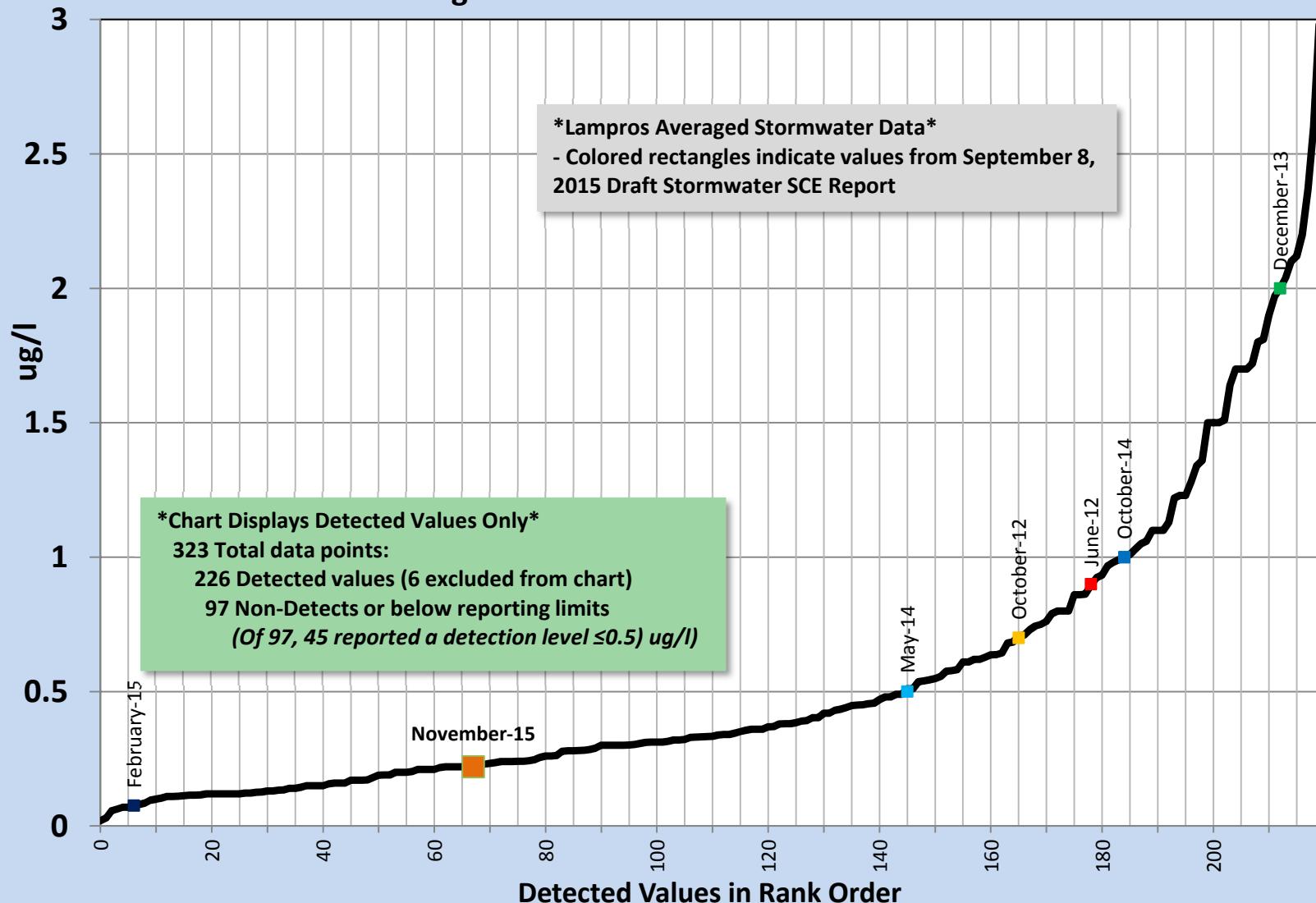
Bis(2-Ethylhexyl)phthalate in Stormwater at Portland Harbor Heavy Industrial Sites

2 Highest Values Excluded from Chart



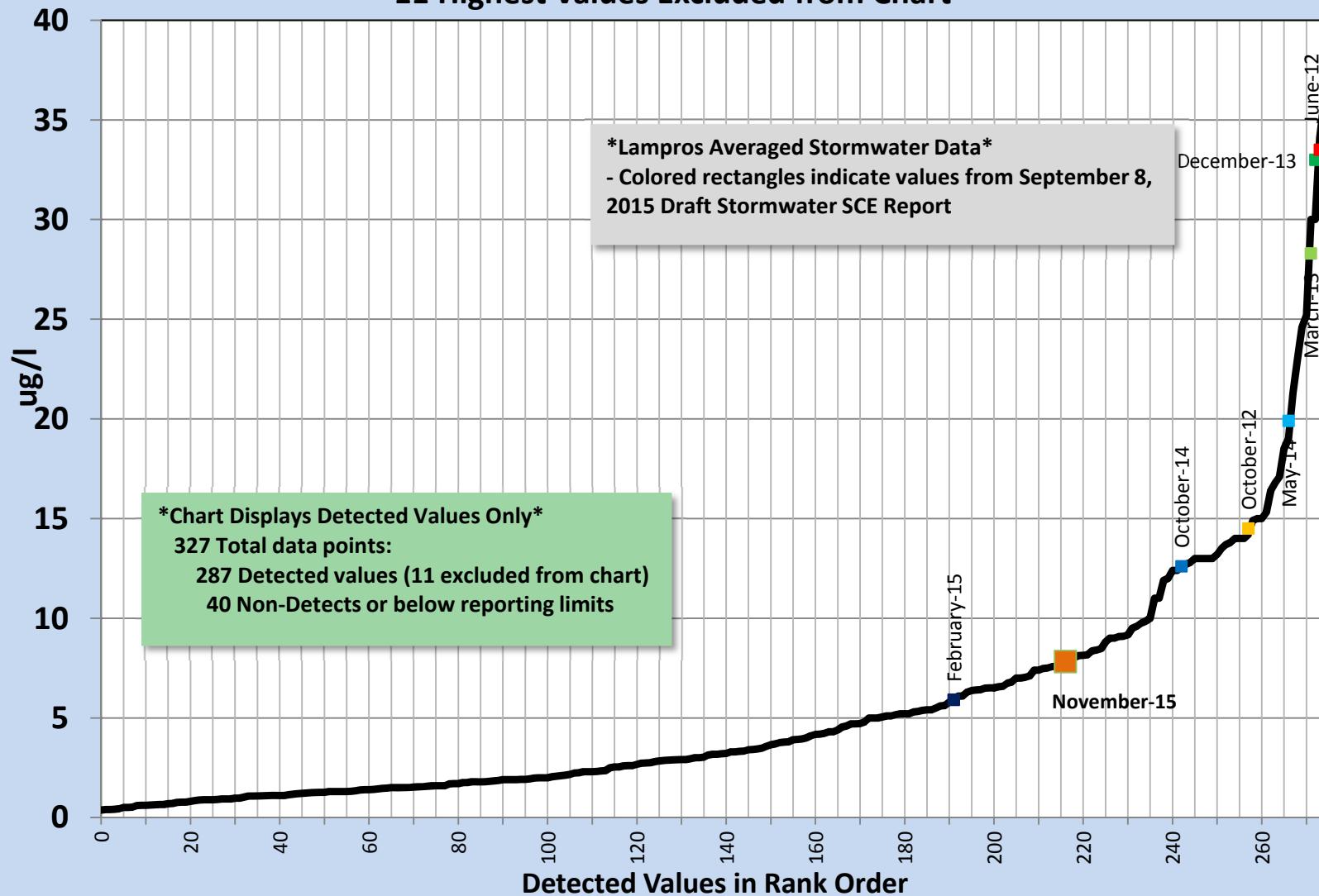
Cadmium (ug/l) in Stormwater at Portland Harbor Heavy Industrial Sites

6 Highest Values Excluded from Chart



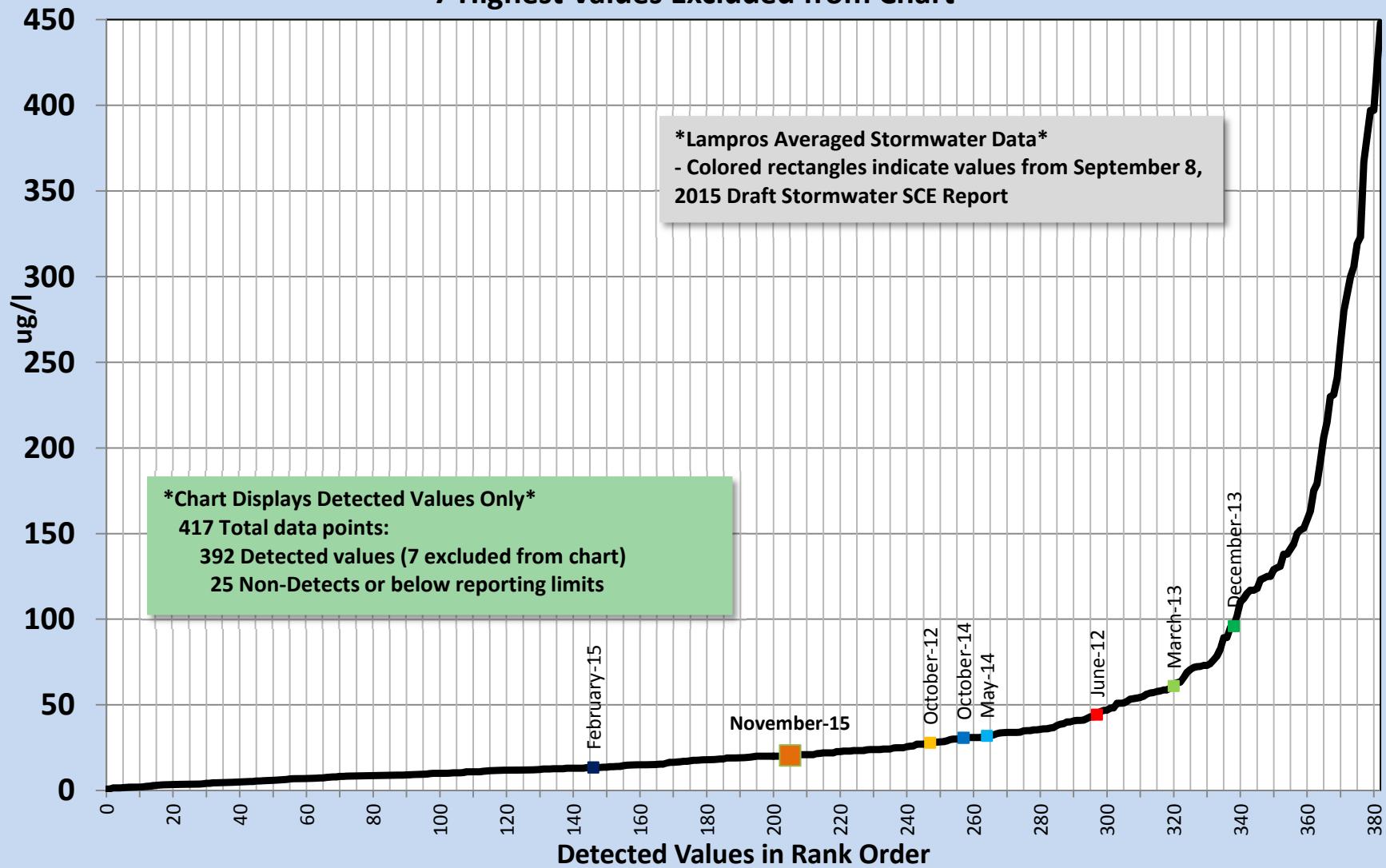
Chromium (ug/l) in Stormwater at Portland Harbor Heavy Industrial Sites

11 Highest Values Excluded from Chart



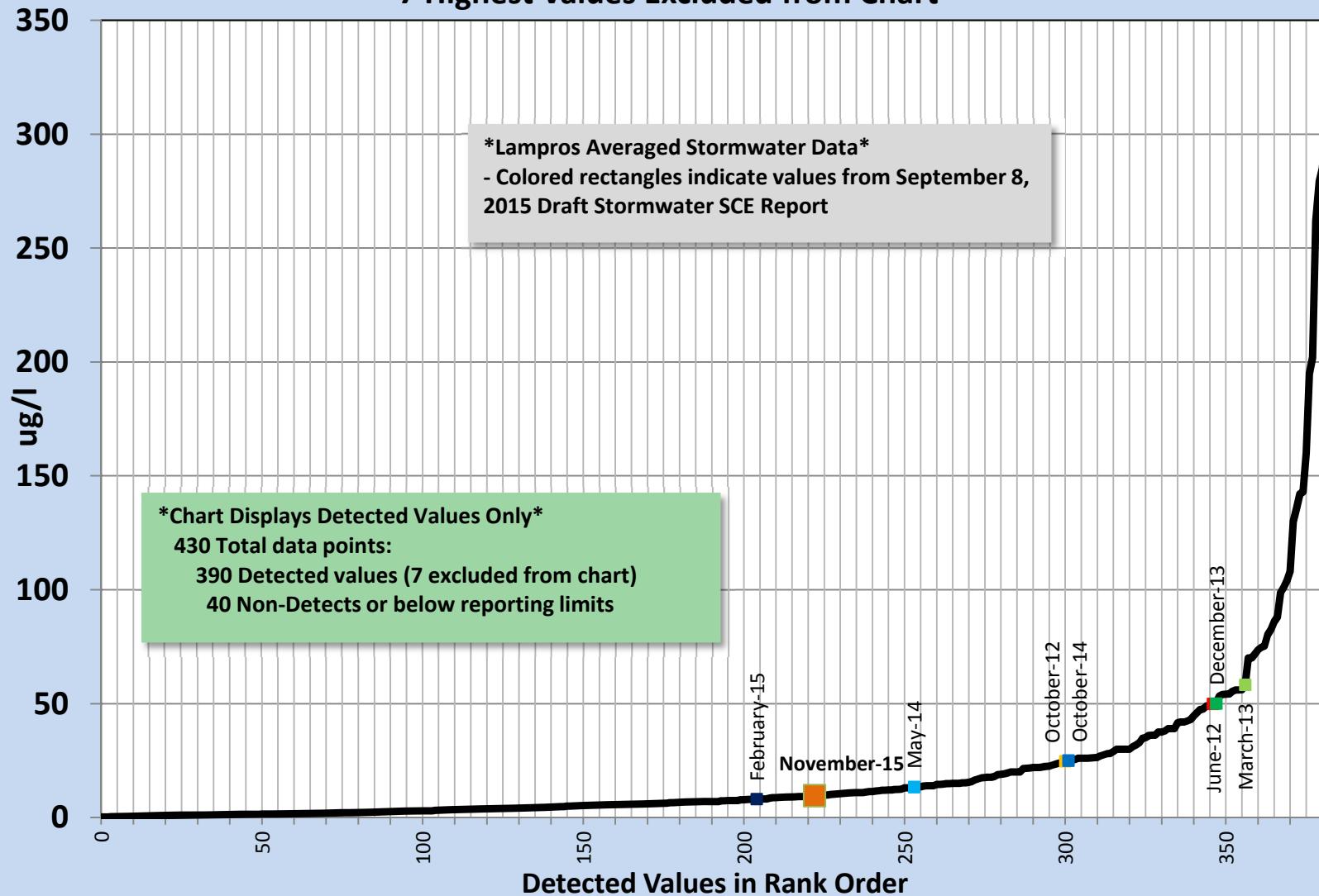
Copper (ug/l) in Stormwater at Portland Harbor Heavy Industrial Sites

7 Highest Values Excluded from Chart



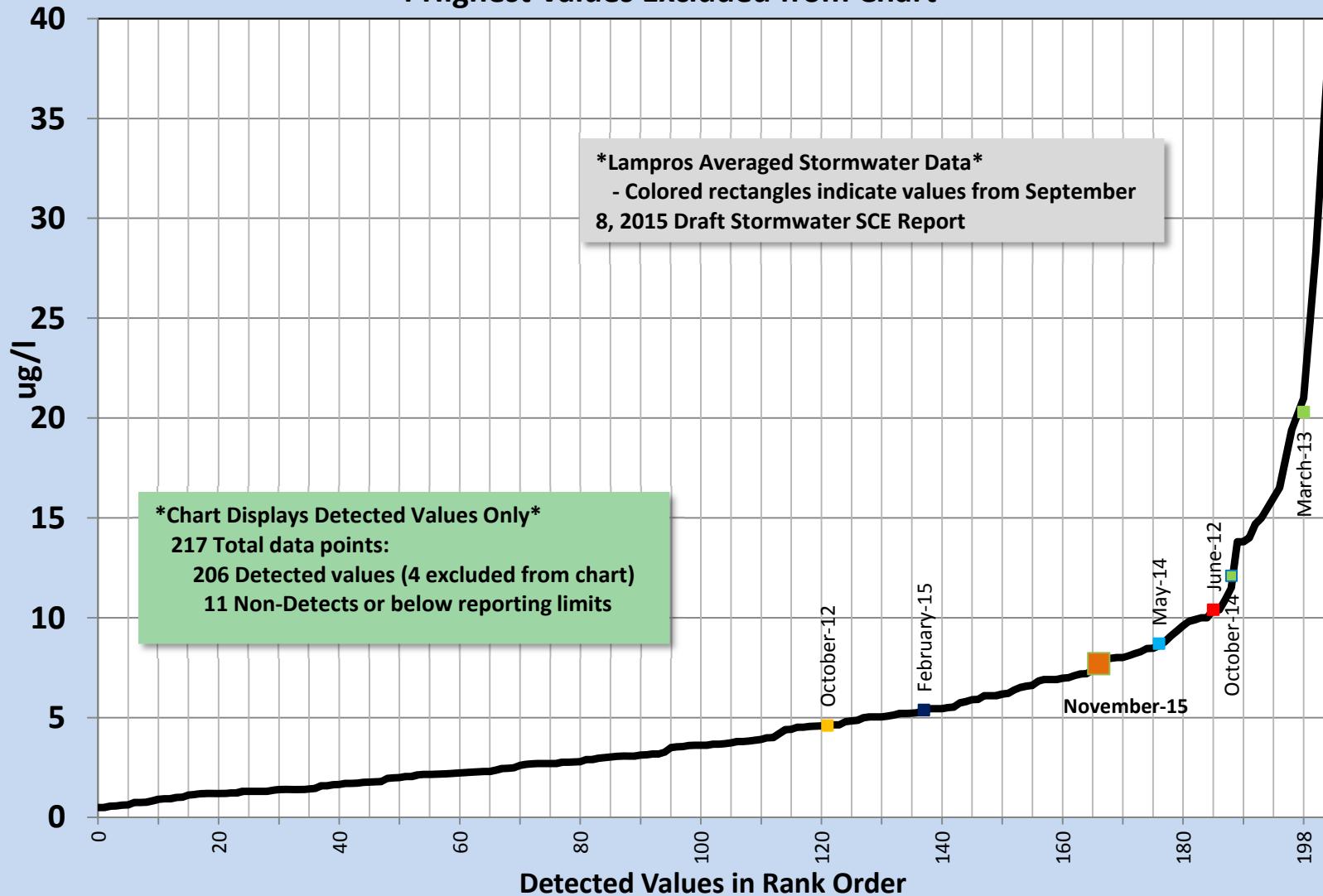
Lead (ug/l) in Stormwater at Portland Harbor Heavy Industrial Sites

7 Highest Values Excluded from Chart



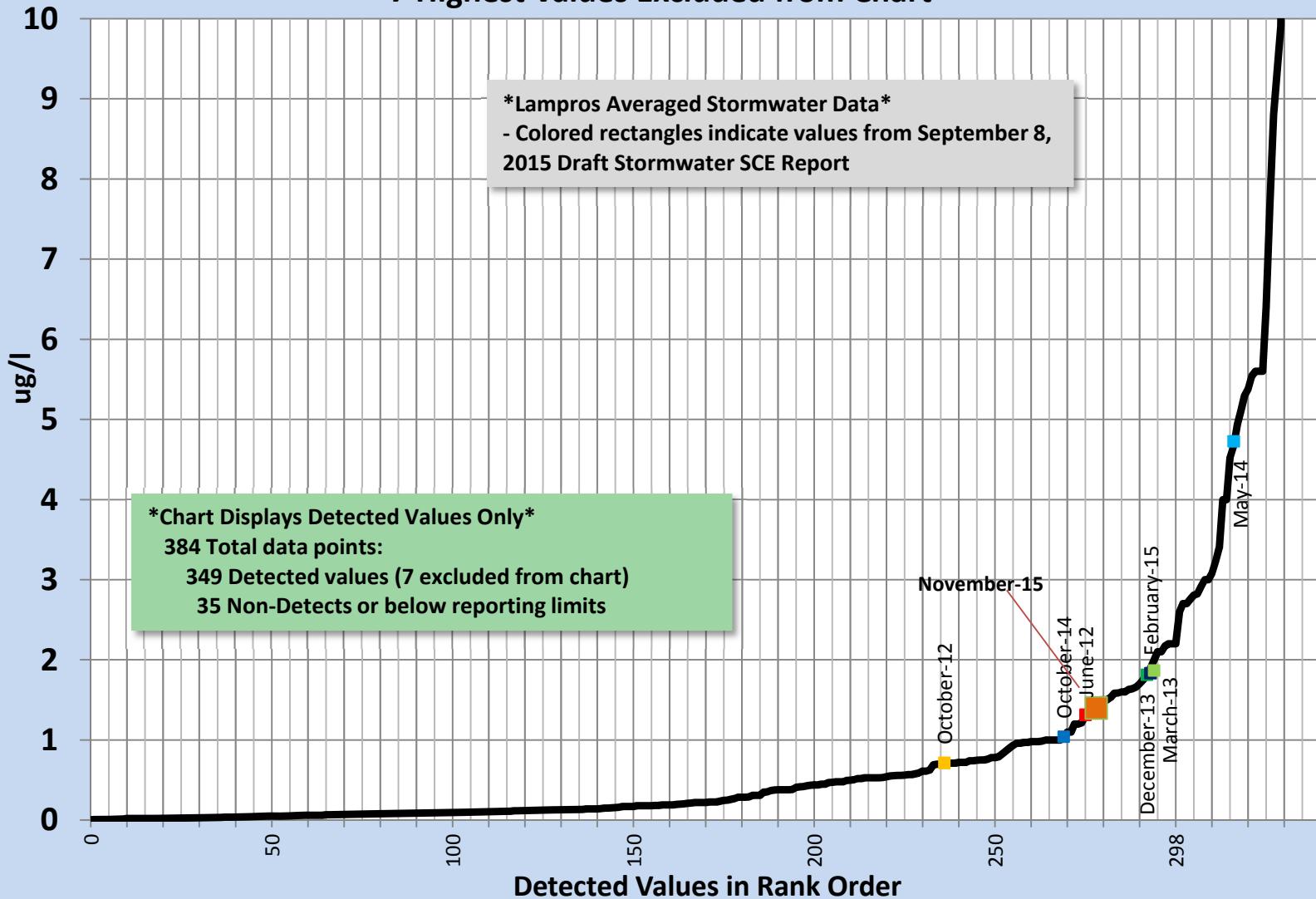
Nickel (ug/l) in Stormwater at Portland Harbor Heavy Industrial Sites

4 Highest Values Excluded from Chart



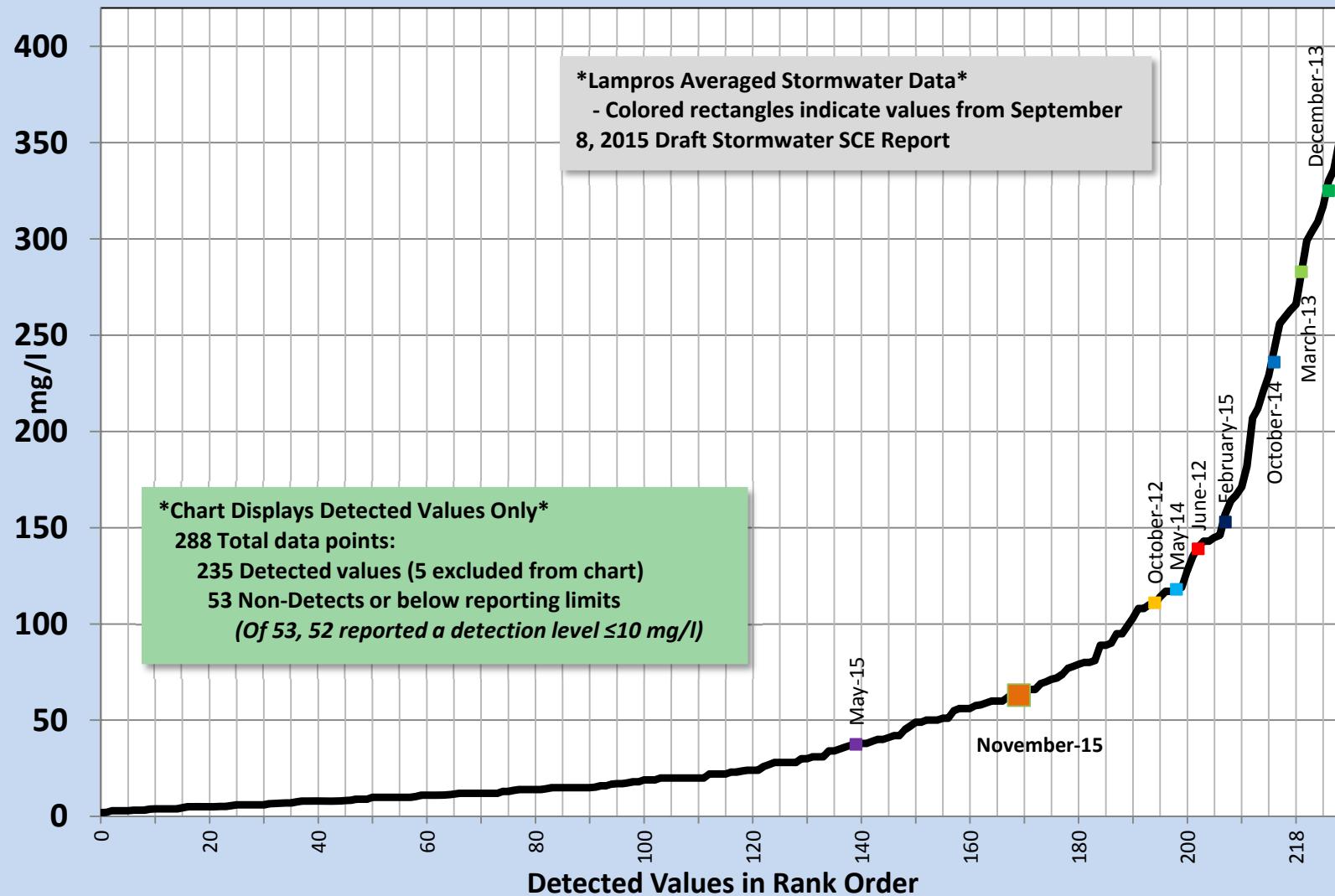
Total PAHs (ug/l) in Stormwater at Portland Harbor Heavy Industrial Sites

7 Highest Values Excluded from Chart



TSS (mg/l) in Stormwater at Portland Harbor Heavy Industrial Sites

5 Highest Values Excluded from Chart



Zinc (ug/l) in Stormwater at Portland Harbor Heavy Industrial Sites

12 Highest Values Excluded from Chart

